4.5. Emissions Measurement

4.5.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RBW / VBW (Emission in non-restricted band)	100 kHz / 300 kHz for Peak

4.5.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.4.3, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

1. Test was performed in accordance with KDB 558074 D01 v03r01 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure
2. The radiated emission test is performed on each TX port of operating mode without summing or adding 10log (N) since the limit is relative emission limit.
   Only worst data of each operating mode is presented.

4.5.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.4.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.4.4.

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Band Edge and Fundamental Emissions

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / 1TX / Chain 1
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.63	54.00	-1.37	22.24	2.22	28.17	0.00	Average	161	16	HORIZONTAL
2	2390.00	69.95	74.00	-4.05	39.56	2.22	28.17	0.00	Peak	161	16	HORIZONTAL
3	2405.91	111.27			80.84	2.22	28.21	0.00	Peak	161	16	HORIZONTAL
4	2406.07	99.47			69.04	2.22	28.21	0.00	Average	161	16	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.04	67.21	74.00	-6.79	36.83	2.21	28.17	0.00	Peak	123	133	HORIZONTAL
2	2390.00	49.94	54.00	-4.06	19.55	2.22	28.17	0.00	Average	123	133	HORIZONTAL
3	2443.73	104.03			73.50	2.24	28.29	0.00	Average	123	133	HORIZONTAL
4	2444.05	115.73			85.20	2.24	28.29	0.00	Peak	123	133	HORIZONTAL
5	2483.50	52.21	54.00	-1.79	21.57	2.26	28.38	0.00	Average	123	133	HORIZONTAL
6	2483.82	71.39	74.00	-2.61	40.75	2.26	28.38	0.00	Peak	123	133	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2457.03	98.08			67.51	2.24	28.33	0.00	Average	100	126	HORIZONTAL
2	2457.99	110.18			79.61	2.24	28.33	0.00	Peak	100	126	HORIZONTAL
3	2483.50	52.01	54.00	-1.99	21.37	2.26	28.38	0.00	Average	100	126	HORIZONTAL
4	2483.50	72.76	74.00	-1.24	42.12	2.26	28.38	0.00	Peak	100	126	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / 1TX / Chain 1
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.72	54.00	-1.28	22.33	2.22	28.17	0.00	Average	162	28	HORIZONTAL
2	2390.00	67.89	74.00	-6.11	37.50	2.22	28.17	0.00	Peak	162	28	HORIZONTAL
3	2406.94	92.90			62.47	2.22	28.21	0.00	Average	162	28	HORIZONTAL
4	2407.26	105.29			74.86	2.22	28.21	0.00	Peak	162	28	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	47.51	54.00	-6.49	17.12	2.22	28.17	0.00	Average	100	163	HORIZONTAL
2	2390.00	64.16	74.00	-9.84	33.77	2.22	28.17	0.00	Peak	100	163	HORIZONTAL
3	2453.03	95.67			65.10	2.24	28.33	0.00	Average	100	163	HORIZONTAL
4	2453.03	108.31			77.74	2.24	28.33	0.00	Peak	100	163	HORIZONTAL
5	2483.50	50.06	54.00	-3.94	19.42	2.26	28.38	0.00	Average	100	163	HORIZONTAL
6	2485.10	72.58	74.00	-1.42	41.90	2.26	28.42	0.00	Peak	100	163	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2458.09	92.96			62.39	2.24	28.33	0.00	Average	100	127	HORIZONTAL
2	2460.65	105.52			74.95	2.24	28.33	0.00	Peak	100	127	HORIZONTAL
3	2483.50	52.96	54.00	-1.04	22.32	2.26	28.38	0.00	Average	100	127	HORIZONTAL
4	2483.50	69.22	74.00	-4.78	38.58	2.26	28.38	0.00	Peak	100	127	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.93	54.00	-1.07	22.54	2.22	28.17	0.00	Average	155	21	HORIZONTAL
2	2390.00	67.46	74.00	-6.54	37.07	2.22	28.17	0.00	Peak	155	21	HORIZONTAL
3	2413.44	103.50			73.07	2.22	28.21	0.00	Average	155	21	HORIZONTAL
4	2417.61	115.46			84.98	2.23	28.25	0.00	Peak	155	21	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2383.27	69.51	74.00	-4.49	39.13	2.21	28.17	0.00	Peak	158	33	HORIZONTAL
2	2390.00	51.06	54.00	-2.94	20.67	2.22	28.17	0.00	Average	158	33	HORIZONTAL
3	2440.85	108.80			78.27	2.24	28.29	0.00	Average	158	33	HORIZONTAL
4	2442.13	120.92			90.39	2.24	28.29	0.00	Peak	158	33	HORIZONTAL
5	2483.50	52.96	54.00	-1.04	22.32	2.26	28.38	0.00	Average	158	33	HORIZONTAL
6	2485.42	70.95	74.00	-3.05	40.27	2.26	28.42	0.00	Peak	158	33	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2468.25	115.49			84.85	2.26	28.38	0.00	Peak	123	27	HORIZONTAL
2	2469.05	103.34			72.70	2.26	28.38	0.00	Average	123	27	HORIZONTAL
3	2483.50	52.80	54.00	-1.20	22.16	2.26	28.38	0.00	Average	123	27	HORIZONTAL
4	2484.14	68.39	74.00	-5.61	37.75	2.26	28.38	0.00	Peak	123	27	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.49	54.00	-1.51	22.10	2.22	28.17	0.00	Average	156	27	HORIZONTAL
2	2390.00	67.76	74.00	-6.24	37.37	2.22	28.17	0.00	Peak	156	27	HORIZONTAL
3	2433.22	108.94			78.46	2.23	28.25	0.00	Peak	156	27	HORIZONTAL
4	2434.18	96.30			65.78	2.23	28.29	0.00	Average	156	27	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.86	54.00	-1.14	22.47	2.22	28.17	0.00	Average	155	27	HORIZONTAL
2	2390.00	68.60	74.00	-5.40	38.21	2.22	28.17	0.00	Peak	155	27	HORIZONTAL
3	2429.63	100.48			70.00	2.23	28.25	0.00	Average	155	27	HORIZONTAL
4	2429.63	113.38			82.90	2.23	28.25	0.00	Peak	155	27	HORIZONTAL
5	2483.50	50.03	54.00	-3.97	19.39	2.26	28.38	0.00	Average	155	27	HORIZONTAL
6	2483.82	63.04	74.00	-10.96	32.40	2.26	28.38	0.00	Peak	155	27	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2444.95	95.30			64.77	2.24	28.29	0.00	Average	151	34	HORIZONTAL
2	2445.59	107.78			77.25	2.24	28.29	0.00	Peak	151	34	HORIZONTAL
3	2483.50	52.62	54.00	-1.38	21.98	2.26	28.38	0.00	Average	151	34	HORIZONTAL
4	2483.50	69.53	74.00	-4.47	38.89	2.26	28.38	0.00	Peak	151	34	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS0 20MHz CH 1, 6, 11 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 09, 2013 ~ Aug. 10, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.80	67.65	74.00	-6.35	37.26	2.22	28.17	0.00	Peak	155	230	HORIZONTAL
2	2390.00	52.72	54.00	-1.28	22.33	2.22	28.17	0.00	Average	155	230	HORIZONTAL
3	2405.60	104.46			74.03	2.22	28.21	0.00	Average	155	230	HORIZONTAL
4	2405.80	116.46			86.03	2.22	28.21	0.00	Peak	155	230	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	46.43	54.00	-7.57	16.04	2.22	28.17	0.00	Average	180	221	HORIZONTAL
2	2390.00	56.04	74.00	-17.96	25.65	2.22	28.17	0.00	Peak	180	221	HORIZONTAL
3	2438.60	101.75			71.23	2.23	28.29	0.00	Average	180	221	HORIZONTAL
4	2439.80	113.71			83.19	2.23	28.29	0.00	Peak	180	221	HORIZONTAL
5	2483.50	47.83	54.00	-6.17	17.19	2.26	28.38	0.00	Average	180	221	HORIZONTAL
6	2483.50	58.93	74.00	-15.07	28.29	2.26	28.38	0.00	Peak	180	221	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2460.00	100.20			69.63	2.24	28.33	0.00	Average	141	232	HORIZONTAL
2	2460.80	112.52			81.95	2.24	28.33	0.00	Peak	141	232	HORIZONTAL
3	2483.50	49.76	54.00	-4.24	19.12	2.26	28.38	0.00	Average	141	232	HORIZONTAL
4	2483.70	65.87	74.00	-8.13	35.23	2.26	28.38	0.00	Peak	141	232	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS0 40MHz CH 3, 6, 9 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 09, 2013 ~ Aug. 10, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.31	54.00	-1.69	21.92	2.22	28.17	0.00	Average	152	230	HORIZONTAL
2	2390.00	67.75	74.00	-6.25	37.36	2.22	28.17	0.00	Peak	152	230	HORIZONTAL
3	2426.00	97.77			67.29	2.23	28.25	0.00	Average	152	230	HORIZONTAL
4	2428.40	110.17			79.69	2.23	28.25	0.00	Peak	152	230	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.61	54.00	-1.39	22.22	2.22	28.17	0.00	Average	149	230	HORIZONTAL
2	2390.00	69.75	74.00	-4.25	39.36	2.22	28.17	0.00	Peak	149	230	HORIZONTAL
3	2451.80	100.62			70.05	2.24	28.33	0.00	Average	149	230	HORIZONTAL
4	2453.00	113.85			83.28	2.24	28.33	0.00	Peak	149	230	HORIZONTAL
5	2483.50	50.47	54.00	-3.53	19.83	2.26	28.38	0.00	Average	149	230	HORIZONTAL
6	2483.50	71.17	74.00	-2.83	40.53	2.26	28.38	0.00	Peak	149	230	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2466.40	110.82			80.23	2.26	28.33	0.00	Peak	149	228	HORIZONTAL
2	2466.80	97.72			67.13	2.26	28.33	0.00	Average	149	228	HORIZONTAL
3	2483.50	52.78	54.00	-1.22	22.14	2.26	28.38	0.00	Average	149	228	HORIZONTAL
4	2483.50	70.70	74.00	-3.30	40.06	2.26	28.38	0.00	Peak	149	228	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS8 20MHz CH 1, 6, 11 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.97	54.00	-1.03	22.58	2.22	28.17	0.00	Average	159	31	HORIZONTAL
2	2390.00	67.05	74.00	-6.95	36.66	2.22	28.17	0.00	Peak	159	31	HORIZONTAL
3	2407.67	116.97			86.54	2.22	28.21	0.00	Peak	159	31	HORIZONTAL
4	2417.29	101.04			70.56	2.23	28.25	0.00	Average	159	31	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.04	69.85	74.00	-4.15	39.47	2.21	28.17	0.00	Peak	156	28	HORIZONTAL
2	2390.00	52.61	54.00	-1.39	22.22	2.22	28.17	0.00	Average	156	28	HORIZONTAL
3	2430.59	105.44			74.96	2.23	28.25	0.00	Average	156	28	HORIZONTAL
4	2444.37	120.42			89.89	2.24	28.29	0.00	Peak	156	28	HORIZONTAL
5	2483.50	52.76	54.00	-1.24	22.12	2.26	28.38	0.00	Average	156	28	HORIZONTAL
6	2485.42	71.00	74.00	-3.00	40.32	2.26	28.42	0.00	Peak	156	28	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2455.59	99.40			68.83	2.24	28.33	0.00	Average	153	26	HORIZONTAL
2	2464.08	114.26			83.69	2.24	28.33	0.00	Peak	153	26	HORIZONTAL
3	2483.50	52.74	54.00	-1.26	22.10	2.26	28.38	0.00	Average	153	26	HORIZONTAL
4	2483.98	69.44	74.00	-4.56	38.80	2.26	28.38	0.00	Peak	153	26	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS8 40MHz CH 3, 6, 9 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.53	54.00	-1.47	22.14	2.22	28.17	0.00	Average	152	39	HORIZONTAL
2	2390.00	69.29	74.00	-4.71	38.90	2.22	28.17	0.00	Peak	152	39	HORIZONTAL
3	2428.41	93.12			62.64	2.23	28.25	0.00	Average	152	39	HORIZONTAL
4	2434.50	110.45			79.93	2.23	28.29	0.00	Peak	152	39	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.94	54.00	-1.06	22.55	2.22	28.17	0.00	Average	154	22	HORIZONTAL
2	2390.00	67.54	74.00	-6.46	37.15	2.22	28.17	0.00	Peak	154	22	HORIZONTAL
3	2452.39	97.39			66.82	2.24	28.33	0.00	Average	154	22	HORIZONTAL
4	2453.03	115.36			84.79	2.24	28.33	0.00	Peak	154	22	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2466.74	107.98			77.39	2.26	28.33	0.00	Peak	123	157	HORIZONTAL
2	2467.06	92.46			61.87	2.26	28.33	0.00	Average	123	157	HORIZONTAL
3	2483.50	52.50	54.00	-1.50	21.86	2.26	28.38	0.00	Average	123	157	HORIZONTAL
4	2483.50	70.76	74.00	-3.24	40.12	2.26	28.38	0.00	Peak	123	157	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS8 20MHz CH 1, 6, 11 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 10, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.81	54.00	-1.19	22.42	2.22	28.17	0.00	Average	154	229	HORIZONTAL
2	2390.00	67.01	74.00	-6.99	36.62	2.22	28.17	0.00	Peak	154	229	HORIZONTAL
3	2407.00	100.17			69.74	2.22	28.21	0.00	Average	154	229	HORIZONTAL
4	2417.00	115.56			85.08	2.23	28.25	0.00	Peak	154	229	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	45.61	54.00	-8.39	15.22	2.22	28.17	0.00	Average	181	223	HORIZONTAL
2	2390.00	56.25	74.00	-17.75	25.86	2.22	28.17	0.00	Peak	181	223	HORIZONTAL
3	2431.00	114.04			83.56	2.23	28.25	0.00	Peak	181	223	HORIZONTAL
4	2431.80	98.71			68.23	2.23	28.25	0.00	Average	181	223	HORIZONTAL
5	2483.50	46.19	54.00	-7.81	15.55	2.26	28.38	0.00	Average	181	223	HORIZONTAL
6	2483.50	57.77	74.00	-16.23	27.13	2.26	28.38	0.00	Peak	181	223	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2458.20	96.62			66.05	2.24	28.33	0.00	Average	148	228	HORIZONTAL
2	2469.20	112.33			81.69	2.26	28.38	0.00	Peak	148	228	HORIZONTAL
3	2483.50	48.15	54.00	-5.85	17.51	2.26	28.38	0.00	Average	148	228	HORIZONTAL
4	2483.50	63.30	74.00	-10.70	32.66	2.26	28.38	0.00	Peak	148	228	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS8 40MHz CH 3, 6, 9 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 10, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.53	54.00	-1.47	22.14	2.22	28.17	0.00	Average	154	216	HORIZONTAL
2	2390.00	70.33	74.00	-3.67	39.94	2.22	28.17	0.00	Peak	154	216	HORIZONTAL
3	2430.80	93.52			63.04	2.23	28.25	0.00	Average	154	216	HORIZONTAL
4	2431.20	110.36			79.88	2.23	28.25	0.00	Peak	154	216	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	51.34	54.00	-2.66	20.95	2.22	28.17	0.00	Average	149	230	HORIZONTAL
2	2390.00	67.14	74.00	-6.86	36.75	2.22	28.17	0.00	Peak	149	230	HORIZONTAL
3	2420.20	112.98			82.50	2.23	28.25	0.00	Peak	149	230	HORIZONTAL
4	2421.80	96.24			65.76	2.23	28.25	0.00	Average	149	230	HORIZONTAL
5	2483.50	52.63	54.00	-1.37	21.99	2.26	28.38	0.00	Average	149	230	HORIZONTAL
6	2483.50	70.18	74.00	-3.82	39.54	2.26	28.38	0.00	Peak	149	230	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2448.00	109.72			79.19	2.24	28.29	0.00	Peak	151	230	HORIZONTAL
2	2466.80	93.56			62.97	2.26	28.33	0.00	Average	151	230	HORIZONTAL
3	2483.50	52.46	54.00	-1.54	21.82	2.26	28.38	0.00	Average	151	230	HORIZONTAL
4	2483.50	70.47	74.00	-3.53	39.83	2.26	28.38	0.00	Peak	151	230	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS16 20MHz CH 1, 6, 11 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 12, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.72	54.00	-1.28	22.33	2.22	28.17	0.00	Average	152	33	HORIZONTAL
2	2390.00	68.85	74.00	-5.15	38.46	2.22	28.17	0.00	Peak	152	33	HORIZONTAL
3	2417.61	116.72			86.24	2.23	28.25	0.00	Peak	152	33	HORIZONTAL
4	2419.21	99.66			69.18	2.23	28.25	0.00	Average	152	33	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	48.32	54.00	-5.68	17.93	2.22	28.17	0.00	Average	151	37	HORIZONTAL
2	2390.00	58.81	74.00	-15.19	28.42	2.22	28.17	0.00	Peak	151	37	HORIZONTAL
3	2443.09	114.45			83.92	2.24	28.29	0.00	Peak	151	37	HORIZONTAL
4	2444.05	97.56			67.03	2.24	28.29	0.00	Average	151	37	HORIZONTAL
5	2483.50	49.76	54.00	-4.24	19.12	2.26	28.38	0.00	Average	151	37	HORIZONTAL
6	2483.50	59.91	74.00	-14.09	29.27	2.26	28.38	0.00	Peak	151	37	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2455.59	95.80			65.23	2.24	28.33	0.00	Average	150	30	HORIZONTAL
2	2464.40	112.90			82.33	2.24	28.33	0.00	Peak	150	30	HORIZONTAL
3	2483.50	49.97	54.00	-4.03	19.33	2.26	28.38	0.00	Average	150	30	HORIZONTAL
4	2483.66	62.25	74.00	-11.75	31.61	2.26	28.38	0.00	Peak	150	30	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11n MCS16 40MHz CH 3, 6, 9 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 12, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 3

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.52	54.00	-1.48	22.13	2.22	28.17	0.00	Average	184	39	HORIZONTAL
2	2390.00	67.13	74.00	-6.87	36.74	2.22	28.17	0.00	Peak	184	39	HORIZONTAL
3	2426.17	110.20			79.72	2.23	28.25	0.00	Peak	184	39	HORIZONTAL
4	2430.65	92.53			62.05	2.23	28.25	0.00	Average	184	39	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.36	72.89	74.00	-1.11	42.51	2.21	28.17	0.00	Peak	180	40	HORIZONTAL
2	2390.00	52.23	54.00	-1.77	21.84	2.22	28.17	0.00	Average	180	40	HORIZONTAL
3	2420.33	95.16			64.68	2.23	28.25	0.00	Average	180	40	HORIZONTAL
4	2421.62	115.16			84.68	2.23	28.25	0.00	Peak	180	40	HORIZONTAL
5	2483.50	51.68	54.00	-2.32	21.04	2.26	28.38	0.00	Average	180	40	HORIZONTAL
6	2483.50	72.01	74.00	-1.99	41.37	2.26	28.38	0.00	Peak	180	40	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2463.22	91.33			60.76	2.24	28.33	0.00	Average	152	27	HORIZONTAL
2	2463.22	110.11			79.54	2.24	28.33	0.00	Peak	152	27	HORIZONTAL
3	2483.50	52.64	54.00	-1.36	22.00	2.26	28.38	0.00	Average	152	27	HORIZONTAL
4	2483.50	70.51	74.00	-3.49	39.87	2.26	28.38	0.00	Peak	152	27	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11b CH 1, 6, 11 / 1TX / Chain 1
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2386.47	52.35	54.00	-1.65	21.97	2.21	28.17	0.00	Average	149	41	HORIZONTAL
2	2387.76	59.85	74.00	-14.15	29.47	2.21	28.17	0.00	Peak	149	41	HORIZONTAL
3	2410.72	111.12			80.69	2.22	28.21	0.00	Average	149	41	HORIZONTAL
4	2411.36	115.15			84.72	2.22	28.21	0.00	Peak	149	41	HORIZONTAL
5	2496.15	62.11	74.00	-11.89	31.42	2.27	28.42	0.00	Peak	149	41	HORIZONTAL
6	2496.47	52.75	54.00	-1.25	22.06	2.27	28.42	0.00	Average	149	41	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	47.08	54.00	-6.92	16.69	2.22	28.17	0.00	Average	100	128	HORIZONTAL
2	2390.00	57.75	74.00	-16.25	27.36	2.22	28.17	0.00	Peak	100	128	HORIZONTAL
3	2435.40	108.50			77.98	2.23	28.29	0.00	Average	100	128	HORIZONTAL
4	2436.04	112.16			81.64	2.23	28.29	0.00	Peak	100	128	HORIZONTAL
5	2483.50	46.86	54.00	-7.14	16.22	2.26	28.38	0.00	Average	100	128	HORIZONTAL
6	2483.50	57.63	74.00	-16.37	26.99	2.26	28.38	0.00	Peak	100	128	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2460.24	107.08			76.51	2.24	28.33	0.00	Average	100	127	HORIZONTAL
2	2461.20	110.82			80.25	2.24	28.33	0.00	Peak	100	127	HORIZONTAL
3	2487.83	52.91	54.00	-1.09	22.23	2.26	28.42	0.00	Average	100	127	HORIZONTAL
4	2488.15	61.76	74.00	-12.24	31.08	2.26	28.42	0.00	Peak	100	127	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11b CH 1, 6, 11 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2387.12	48.98	54.00	-5.02	18.60	2.21	28.17	0.00	Average	100	154	HORIZONTAL
2	2387.12	58.97	74.00	-15.03	28.59	2.21	28.17	0.00	Peak	100	154	HORIZONTAL
3	2413.28	113.81			83.38	2.22	28.21	0.00	Peak	100	154	HORIZONTAL
4	2413.60	110.13			79.70	2.22	28.21	0.00	Average	100	154	HORIZONTAL
5	2496.00	62.45	74.00	-11.55	31.76	2.27	28.42	0.00	Peak	100	154	HORIZONTAL
6	2496.96	52.95	54.00	-1.05	22.26	2.27	28.42	0.00	Average	100	154	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	48.20	54.00	-5.80	17.81	2.22	28.17	0.00	Average	124	27	HORIZONTAL
2	2390.00	60.04	74.00	-13.96	29.65	2.22	28.17	0.00	Peak	124	27	HORIZONTAL
3	2439.56	117.36			86.84	2.23	28.29	0.00	Peak	124	27	HORIZONTAL
4	2439.89	113.27			82.75	2.23	28.29	0.00	Average	124	27	HORIZONTAL
5	2483.50	49.51	54.00	-4.49	18.87	2.26	28.38	0.00	Average	124	27	HORIZONTAL
6	2483.50	61.10	74.00	-12.90	30.46	2.26	28.38	0.00	Peak	124	27	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2463.76	109.59			79.02	2.24	28.33	0.00	Average	123	160	HORIZONTAL
2	2464.56	113.36			82.79	2.24	28.33	0.00	Peak	123	160	HORIZONTAL
3	2487.83	52.65	54.00	-1.35	21.97	2.26	28.42	0.00	Average	123	160	HORIZONTAL
4	2487.99	62.45	74.00	-11.55	31.77	2.26	28.42	0.00	Peak	123	160	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11b CH 1, 6, 11 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 09, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	43.42	54.00	-10.58	13.03	2.22	28.17	0.00	Average	121	208	HORIZONTAL
2	2390.00	53.29	74.00	-20.71	22.90	2.22	28.17	0.00	Peak	121	208	HORIZONTAL
3	2413.60	104.42			73.99	2.22	28.21	0.00	Average	121	208	HORIZONTAL
4	2415.60	108.99			78.55	2.23	28.21	0.00	Peak	121	208	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	44.88	54.00	-9.12	14.49	2.22	28.17	0.00	Average	188	228	HORIZONTAL
2	2390.00	55.24	74.00	-18.76	24.85	2.22	28.17	0.00	Peak	188	228	HORIZONTAL
3	2434.60	113.37			82.85	2.23	28.29	0.00	Peak	188	228	HORIZONTAL
4	2435.00	109.28			78.76	2.23	28.29	0.00	Average	188	228	HORIZONTAL
5	2483.50	44.83	54.00	-9.17	14.19	2.26	28.38	0.00	Average	188	228	HORIZONTAL
6	2483.50	55.02	74.00	-18.98	24.38	2.26	28.38	0.00	Peak	188	228	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2461.20	106.05			75.48	2.24	28.33	0.00	Average	154	233	HORIZONTAL
2	2463.00	111.85			81.28	2.24	28.33	0.00	Peak	154	233	HORIZONTAL
3	2483.50	46.08	54.00	-7.92	15.44	2.26	28.38	0.00	Average	154	233	HORIZONTAL
4	2484.90	56.85	74.00	-17.15	26.21	2.26	28.38	0.00	Peak	154	233	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Temperature	25°C	Humidity	54%
Test Engineer	Kenneth Huang	Configurations	IEEE 802.11g CH 1, 6, 11 / 1TX / Chain 1
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.84	54.00	-1.16	22.45	2.22	28.17	0.00	Average	100	49	HORIZONTAL
2	2390.00	71.45	74.00	-2.55	41.06	2.22	28.17	0.00	Peak	100	49	HORIZONTAL
3	2408.47	99.69			69.26	2.22	28.21	0.00	Average	100	49	HORIZONTAL
4	2408.96	112.30			81.87	2.22	28.21	0.00	Peak	100	49	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2389.04	72.48	74.00	-1.52	42.10	2.21	28.17	0.00	Peak	100	129	HORIZONTAL
2	2390.00	52.90	54.00	-1.10	22.51	2.22	28.17	0.00	Average	100	129	HORIZONTAL
3	2440.21	116.22			85.70	2.23	28.29	0.00	Peak	100	129	HORIZONTAL
4	2443.73	103.51			72.98	2.24	28.29	0.00	Average	100	129	HORIZONTAL
5	2483.50	52.14	54.00	-1.86	21.50	2.26	28.38	0.00	Average	100	129	HORIZONTAL
6	2484.46	70.20	74.00	-3.80	39.56	2.26	28.38	0.00	Peak	100	129	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2456.23	111.67			81.10	2.24	28.33	0.00	Peak	100	128	HORIZONTAL
2	2457.83	98.73			68.16	2.24	28.33	0.00	Average	100	128	HORIZONTAL
3	2483.50	51.21	54.00	-2.79	20.57	2.26	28.38	0.00	Average	100	128	HORIZONTAL
4	2486.55	72.66	74.00	-1.34	41.98	2.26	28.42	0.00	Peak	100	128	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11g CH 1, 6, 11 / 2TX / Chain 1 + Chain 2
Test Date	Aug. 13, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.54	54.00	-1.46	22.15	2.22	28.17	0.00	Average	155	32	HORIZONTAL
2	2390.00	66.34	74.00	-7.66	35.95	2.22	28.17	0.00	Peak	155	32	HORIZONTAL
3	2415.21	117.46			87.03	2.22	28.21	0.00	Peak	155	32	HORIZONTAL
4	2419.85	104.82			74.34	2.23	28.25	0.00	Average	155	32	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2387.76	51.99	54.00	-2.01	21.61	2.21	28.17	0.00	Average	157	35	HORIZONTAL
2	2388.40	68.57	74.00	-5.43	38.19	2.21	28.17	0.00	Peak	157	35	HORIZONTAL
3	2432.51	109.61			79.13	2.23	28.25	0.00	Average	157	35	HORIZONTAL
4	2442.77	121.71			91.18	2.24	28.29	0.00	Peak	157	35	HORIZONTAL
5	2483.50	52.88	54.00	-1.12	22.24	2.26	28.38	0.00	Average	157	35	HORIZONTAL
6	2488.31	71.46	74.00	-2.54	40.78	2.26	28.42	0.00	Peak	157	35	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2468.09	115.29			84.65	2.26	28.38	0.00	Peak	122	142	HORIZONTAL
2	2468.57	103.45			72.81	2.26	28.38	0.00	Average	122	142	HORIZONTAL
3	2483.50	52.95	54.00	-1.05	22.31	2.26	28.38	0.00	Average	122	142	HORIZONTAL
4	2483.98	68.05	74.00	-5.95	37.41	2.26	28.38	0.00	Peak	122	142	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11g CH 1, 6, 11 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 09, 2013	Test Mode	Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	52.80	54.00	-1.20	22.41	2.22	28.17	0.00	Average	154	229	HORIZONTAL
2	2390.00	71.27	74.00	-2.73	40.88	2.22	28.17	0.00	Peak	154	229	HORIZONTAL
3	2408.80	102.83			72.40	2.22	28.21	0.00	Average	154	229	HORIZONTAL
4	2408.80	115.46			85.03	2.22	28.21	0.00	Peak	154	229	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2390.00	46.68	54.00	-7.32	16.29	2.22	28.17	0.00	Average	149	228	HORIZONTAL
2	2390.00	57.15	74.00	-16.85	26.76	2.22	28.17	0.00	Peak	149	228	HORIZONTAL
3	2429.40	103.25			72.77	2.23	28.25	0.00	Average	149	228	HORIZONTAL
4	2440.20	115.45			84.93	2.23	28.29	0.00	Peak	149	228	HORIZONTAL
5	2483.50	49.28	54.00	-4.72	18.64	2.26	28.38	0.00	Average	149	228	HORIZONTAL
6	2483.50	60.24	74.00	-13.76	29.60	2.26	28.38	0.00	Peak	149	228	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	2464.00	102.69			72.12	2.24	28.33	0.00	Average	152	233	HORIZONTAL
2	2464.60	114.96			84.39	2.24	28.33	0.00	Peak	152	233	HORIZONTAL
3	2483.50	49.89	54.00	-4.11	19.25	2.26	28.38	0.00	Average	152	233	HORIZONTAL
4	2484.10	64.53	74.00	-9.47	33.89	2.26	28.38	0.00	Peak	152	233	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS16 20MHz CH 149, 157, 165 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 27, 2013	Test Mode	Mode 2 (Ant.31 PIFA antenna / 4.7dBi)

Channel 149

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5438.40	52.06	54.00	-1.94	14.36	3.52	34.18	0.00	Average	100	295	VERTICAL
2	5440.00	59.73	74.00	-14.27	22.03	3.52	34.18	0.00	Peak	100	295	VERTICAL
3	5736.99	103.03			65.08	3.61	34.34	0.00	Average	100	295	VERTICAL
4	5748.21	120.84			82.88	3.61	34.35	0.00	Peak	100	295	VERTICAL

Item 3, 4 are the fundamental frequency at 5745 MHz.

Channel 157

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5036.80	52.92	54.00	-1.08	16.06	3.40	33.46	0.00	Average	100	295	VERTICAL
2	5040.00	58.97	74.00	-15.03	22.11	3.40	33.46	0.00	Peak	100	295	VERTICAL
3	5440.00	52.13	54.00	-1.87	14.43	3.52	34.18	0.00	Average	100	295	VERTICAL
4	5440.00	59.05	74.00	-14.95	21.35	3.52	34.18	0.00	Peak	100	295	VERTICAL
5	5781.80	101.90			63.91	3.63	34.36	0.00	Average	100	295	VERTICAL
6	5781.80	117.75			79.76	3.63	34.36	0.00	Peak	100	295	VERTICAL

Item 5, 6 are the fundamental frequency at 5785 MHz.

Channel 165

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5438.40	52.04	54.00	-1.96	14.34	3.52	34.18	0.00	Average	108	294	VERTICAL
2	5440.00	59.48	74.00	-14.52	21.78	3.52	34.18	0.00	Peak	108	294	VERTICAL
3	5821.80	101.08			63.09	3.63	34.36	0.00	Average	108	294	VERTICAL
4	5831.41	120.74			82.74	3.63	34.37	0.00	Peak	108	294	VERTICAL

Item 3, 4 are the fundamental frequency at 5825 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	25°C	Humidity	54%
Test Engineer	Jim Huang	Configurations	IEEE 802.11n MCS16 40MHz CH 151, 159 / 3TX / Chain 1 + Chain 2 + Chain 3
Test Date	Aug. 27, 2013	Test Mode	Mode 2 (Ant.31 PIFA antenna / 4.7dBi)

Channel 151

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5040.00	51.55	54.00	-2.45	14.69	3.40	33.46	0.00	Average	100	294	VERTICAL
2	5040.00	58.38	74.00	-15.62	21.52	3.40	33.46	0.00	Peak	100	294	VERTICAL
3	5440.00	51.76	54.00	-2.24	14.06	3.52	34.18	0.00	Average	100	294	VERTICAL
4	5440.00	58.71	74.00	-15.29	21.01	3.52	34.18	0.00	Peak	100	294	VERTICAL
5	5742.18	100.04			62.08	3.61	34.35	0.00	Average	100	294	VERTICAL
6	5751.80	118.07			80.11	3.61	34.35	0.00	Peak	100	294	VERTICAL

Item 5, 6 are the fundamental frequency at 5755 MHz.

Channel 159

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	5040.00	52.18	54.00	-1.82	15.32	3.40	33.46	0.00	Average	100	293	VERTICAL
2	5040.00	57.75	74.00	-16.25	20.89	3.40	33.46	0.00	Peak	100	293	VERTICAL
3	5440.00	52.41	54.00	-1.59	14.71	3.52	34.18	0.00	Average	100	293	VERTICAL
4	5440.00	59.51	74.00	-14.49	21.81	3.52	34.18	0.00	Peak	100	293	VERTICAL
5	5778.97	99.25			61.27	3.62	34.36	0.00	Average	100	293	VERTICAL
6	5778.97	116.96			78.98	3.62	34.36	0.00	Peak	100	293	VERTICAL

Item 5, 6 are the fundamental frequency at 5795 MHz.

Note:

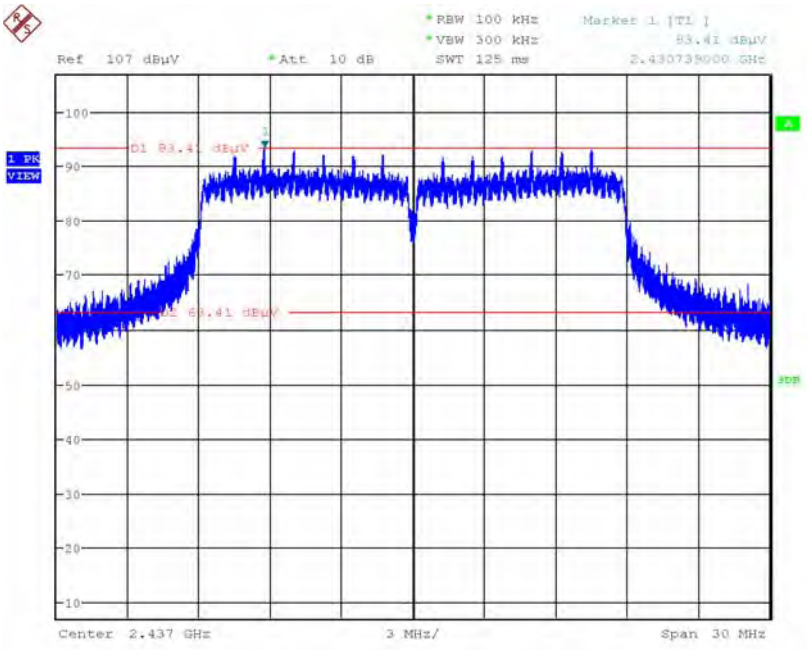
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Emission not in Restricted Band

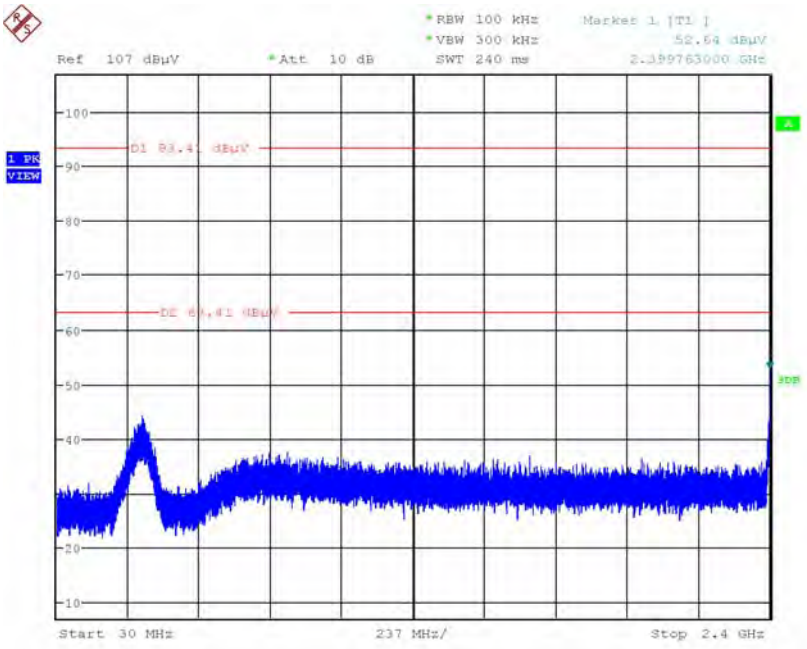
Mode 1 (Ant.31 PIFA antenna / 4.4dBi)

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level / 1TX



Date: 14.AUG.2013 00:30:05

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 /1TX / 30MHz~2400MHz (down 30dBc)



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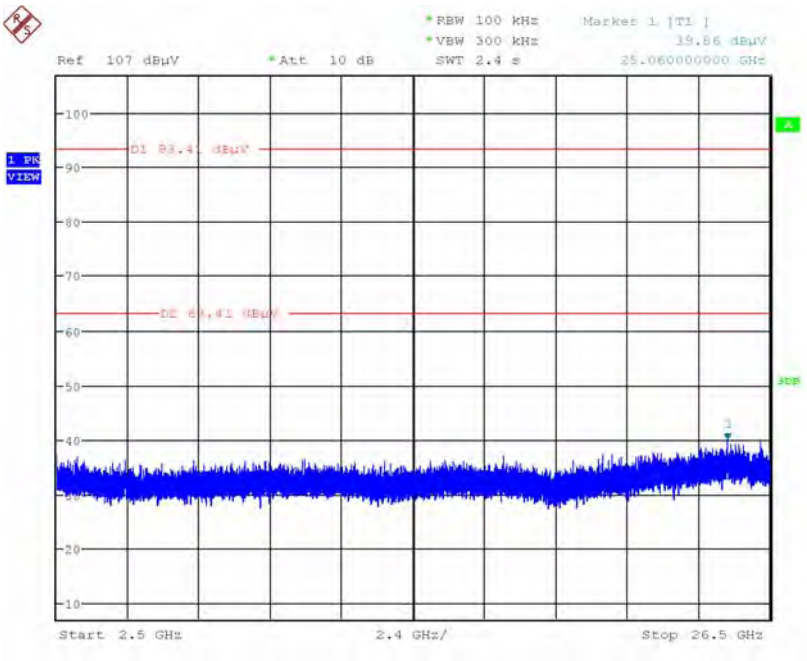

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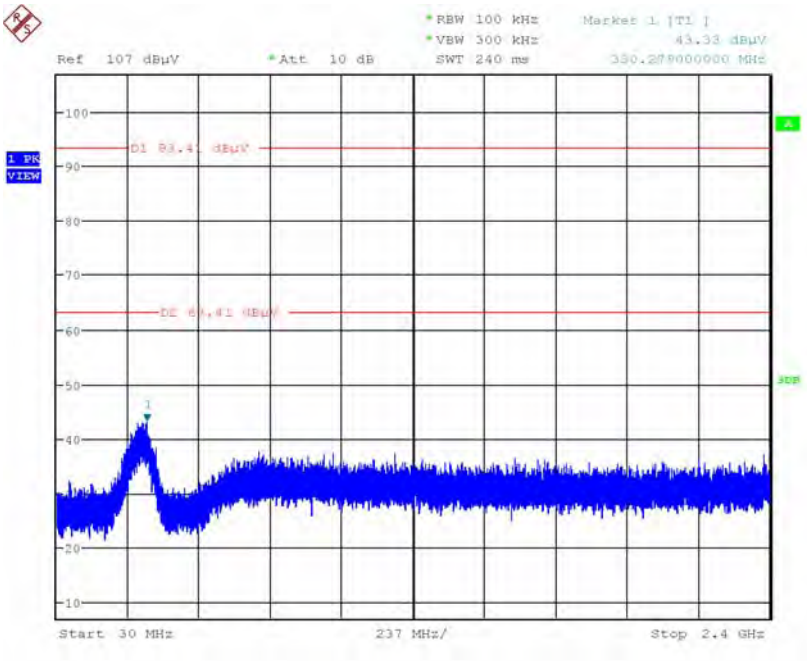
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 1TX / 30MHz~2400MHz (down 30dBc)



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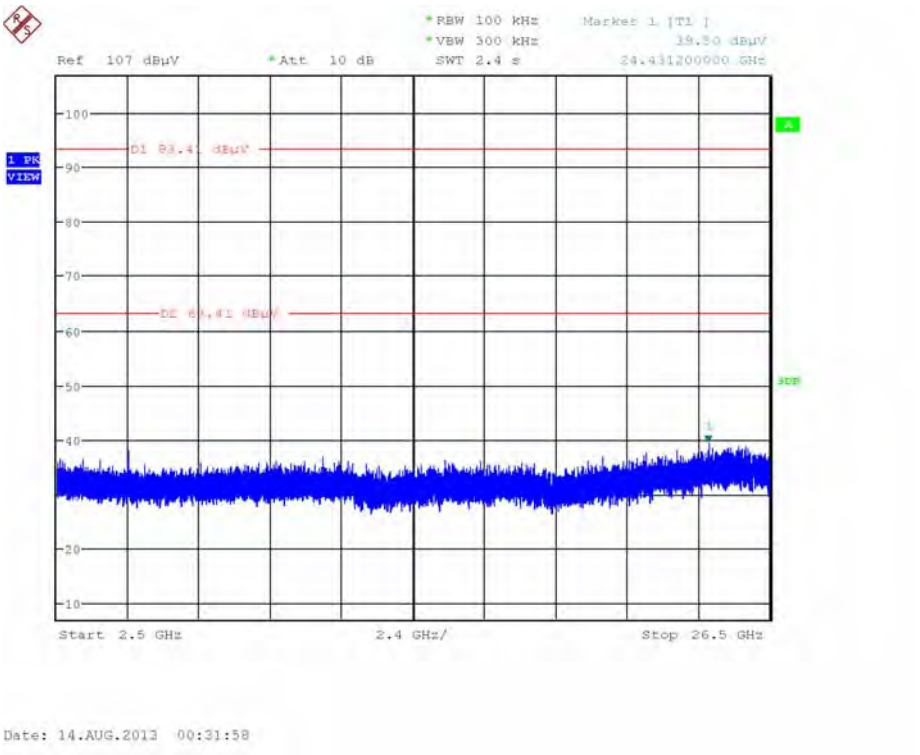
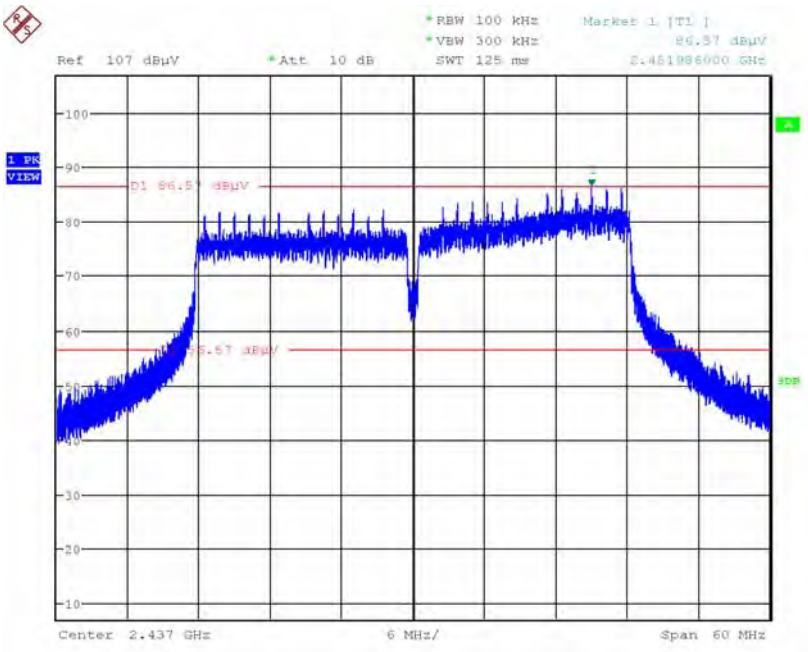
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 1TX / 2500MHz~26500MHz (down 30dBc)

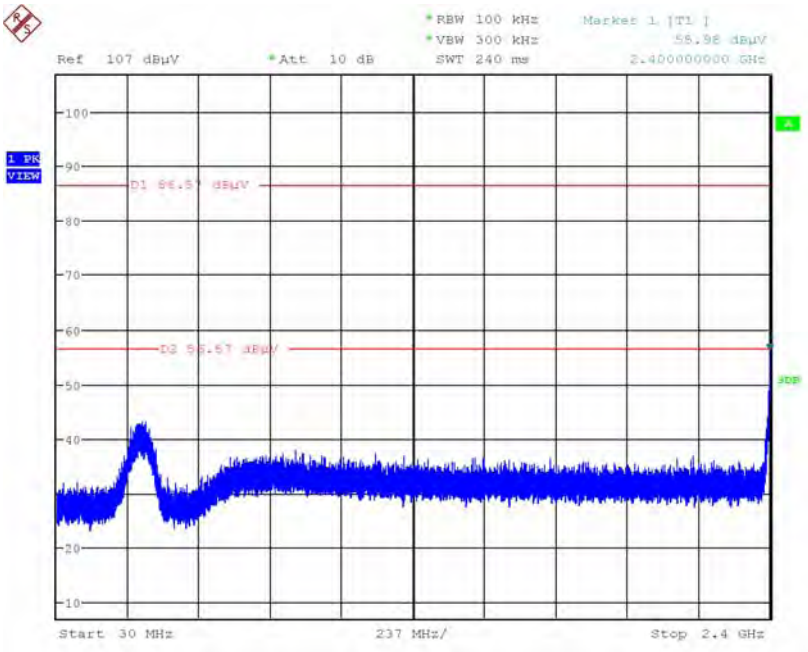


Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level / 1TX



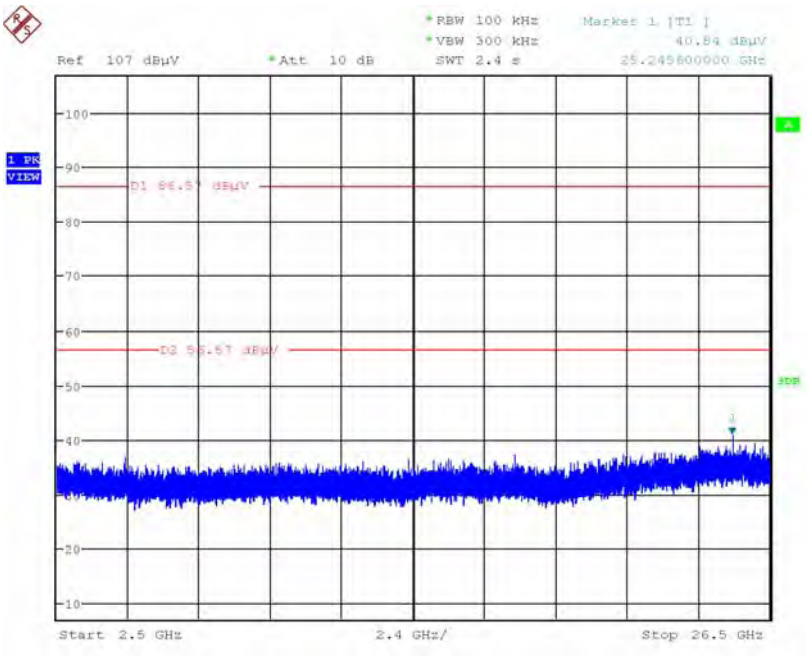
Date: 14.AUG.2013 00:34:48

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 1TX / 30MHz~2400MHz (down 30dBc)



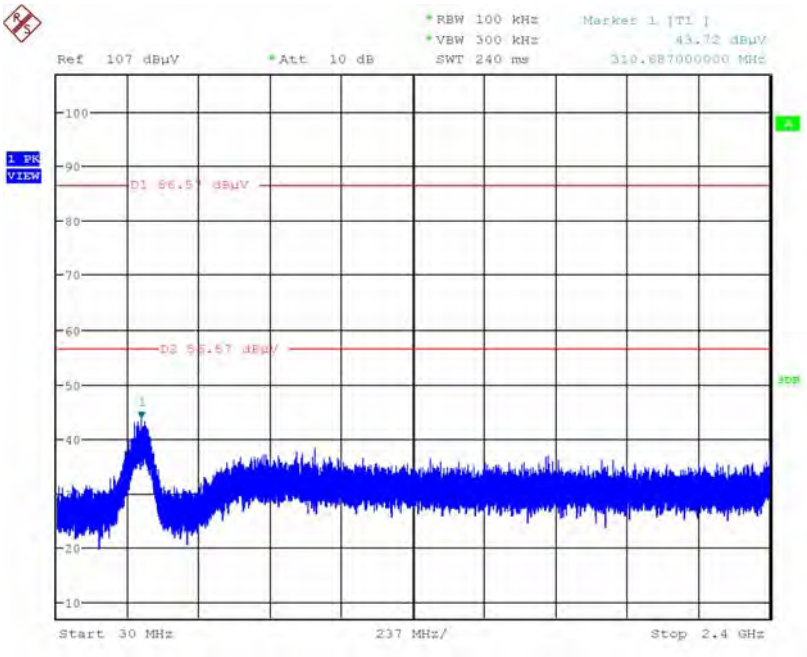
Date: 14.AUG.2013 00:37:56

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 1TX / 2500MHz~26500MHz (down 30dBc)



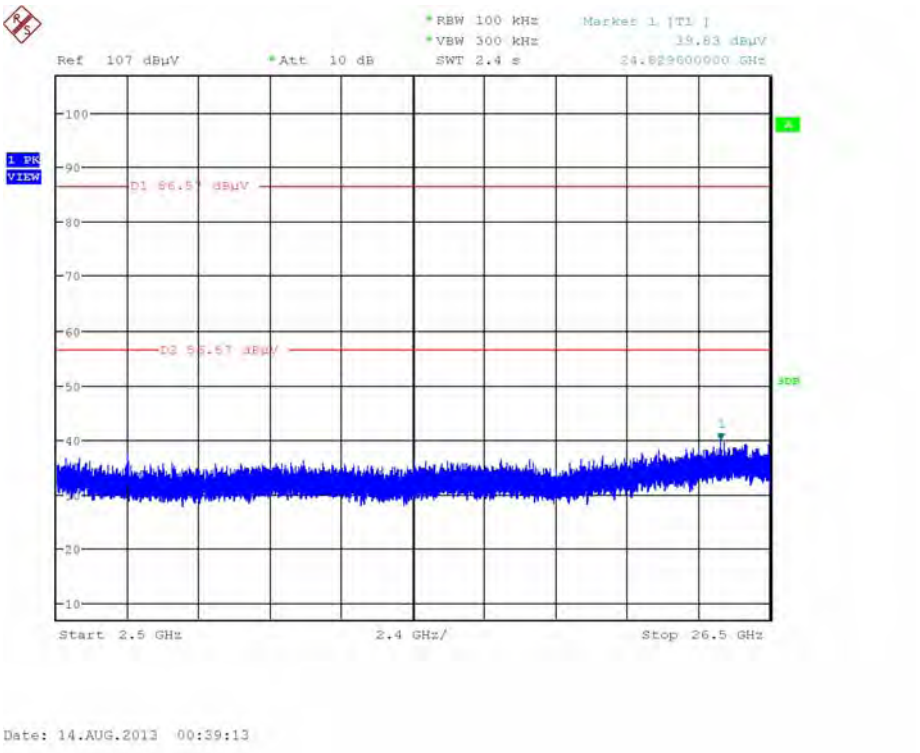
Date: 14.AUG.2013 00:38:28

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 1TX / 30MHz~2400MHz (down 30dBc)

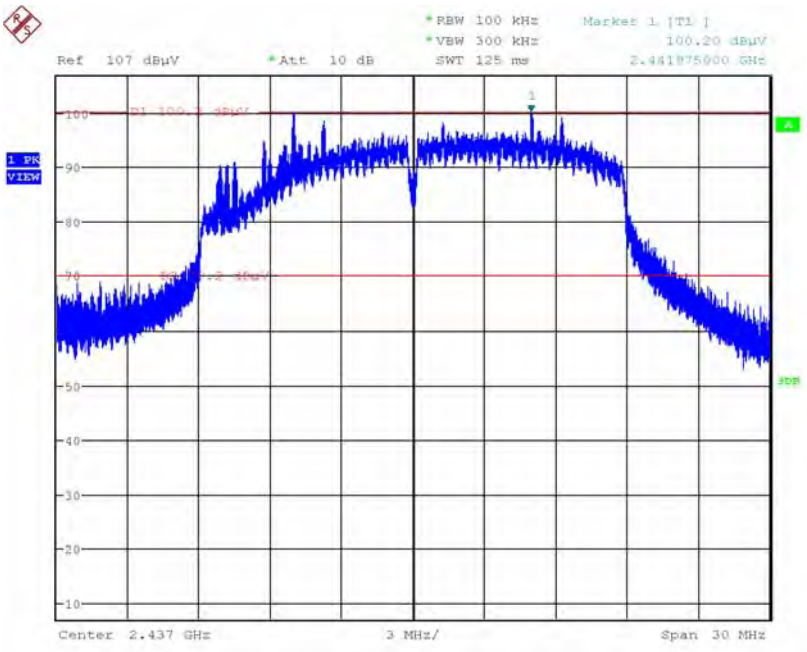


Date: 14.AUG.2013 00:39:41

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 1TX / 2500MHz~26500MHz (down 30dBc)



Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level / 2TX



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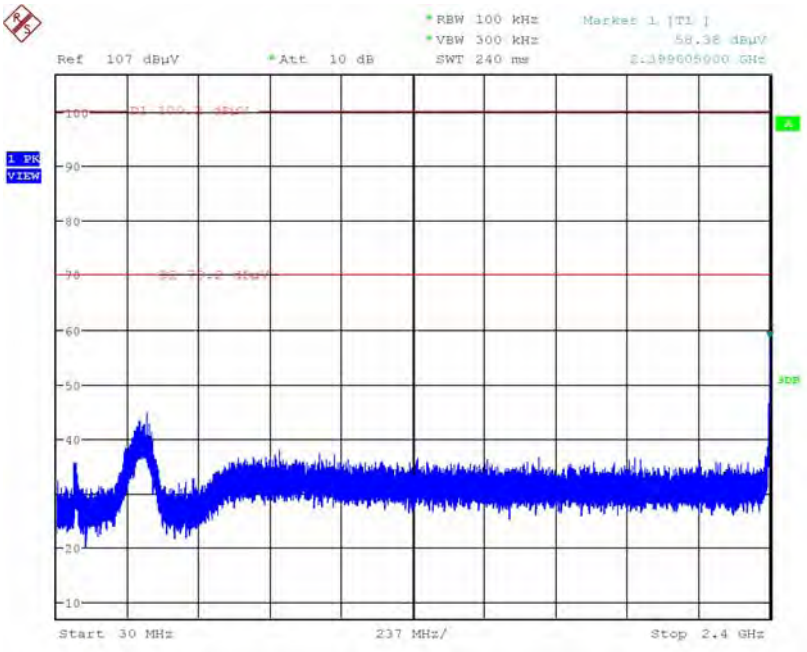
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 2TX / 30MHz~2400MHz (down 30dBc)



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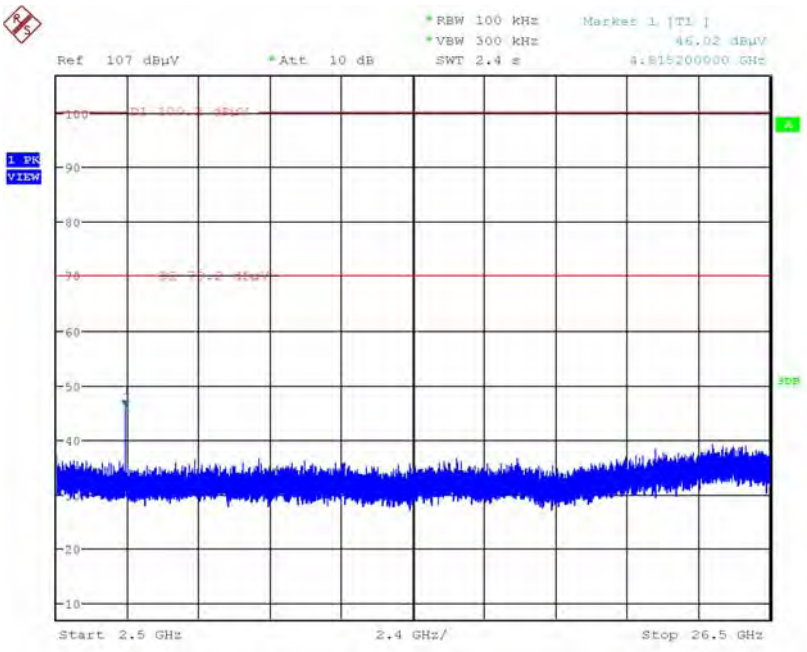
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 2TX / 2500MHz~26500MHz (down 30dBc)



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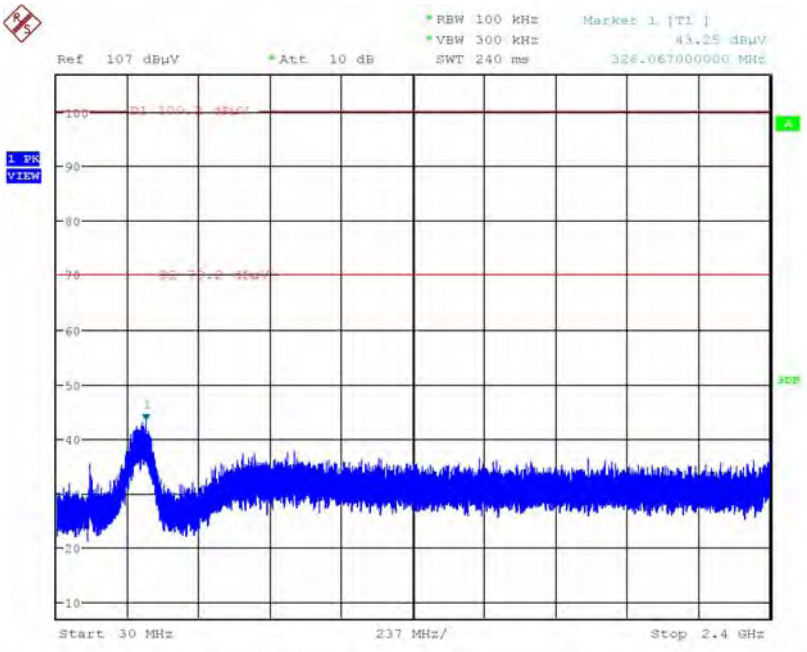
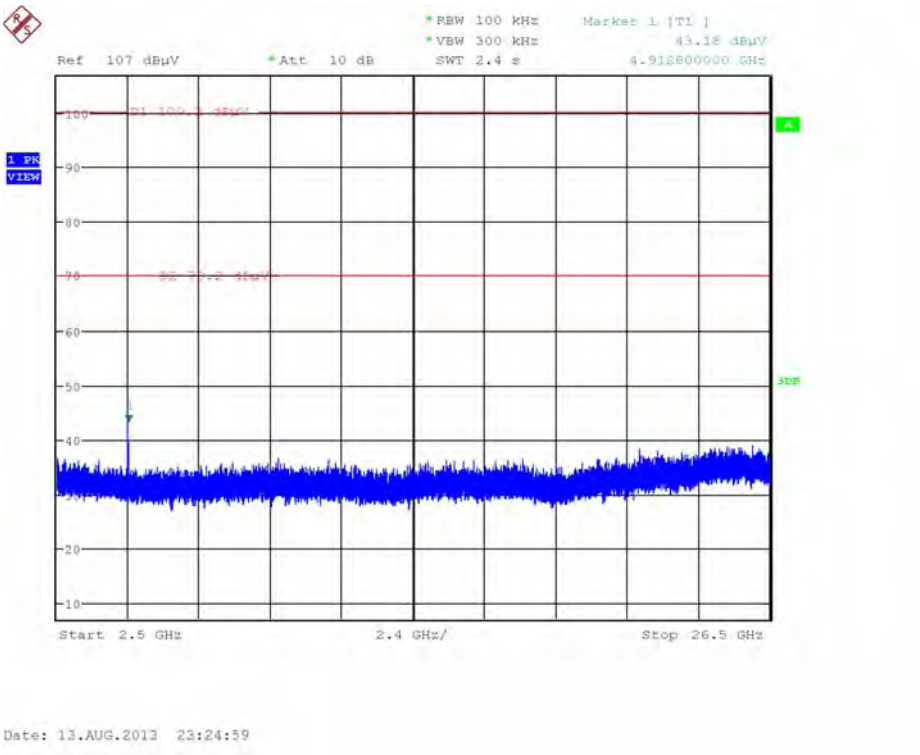
Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 2TX / 30MHz~2400MHz (down 30dBc)

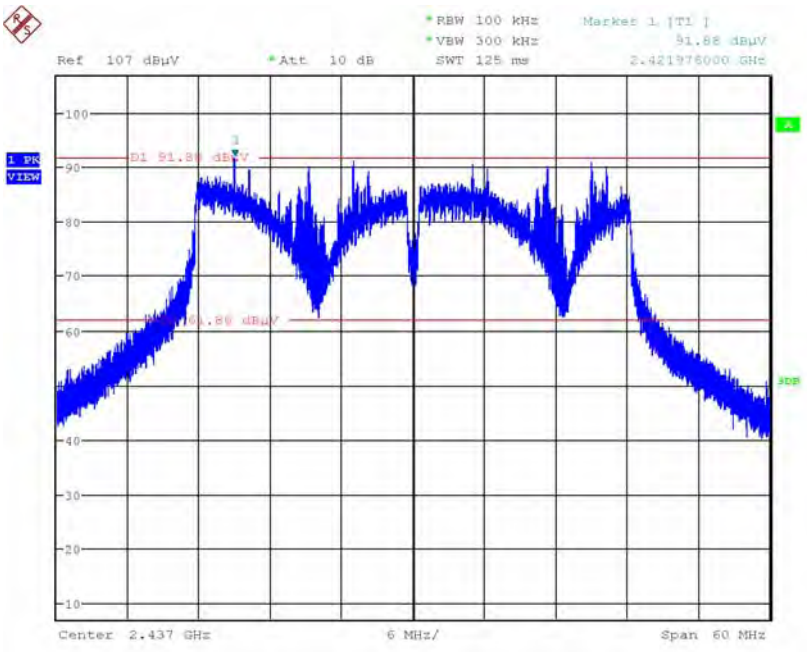


Date: 13.AUG.2013 23:25:27

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 2TX / 2500MHz~26500MHz (down 30dBc)

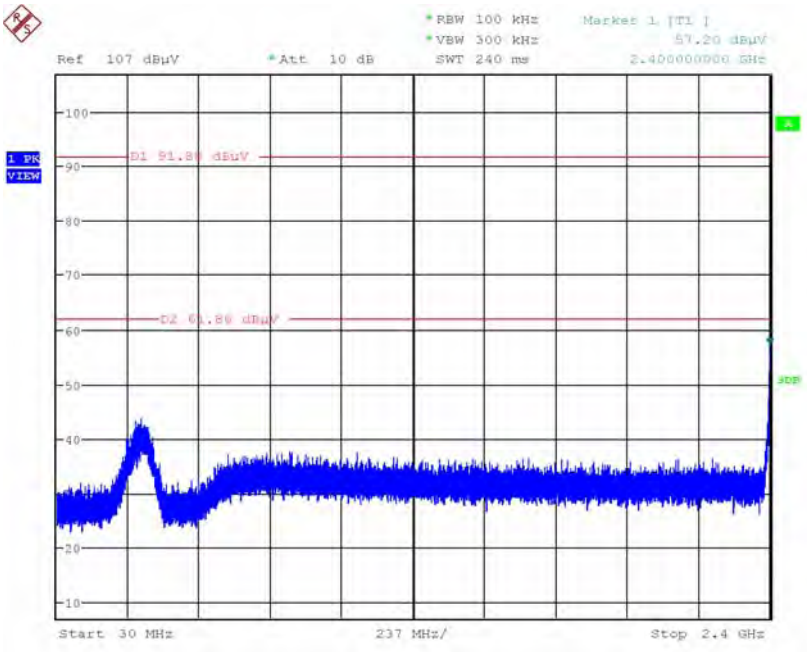


Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level / 2TX



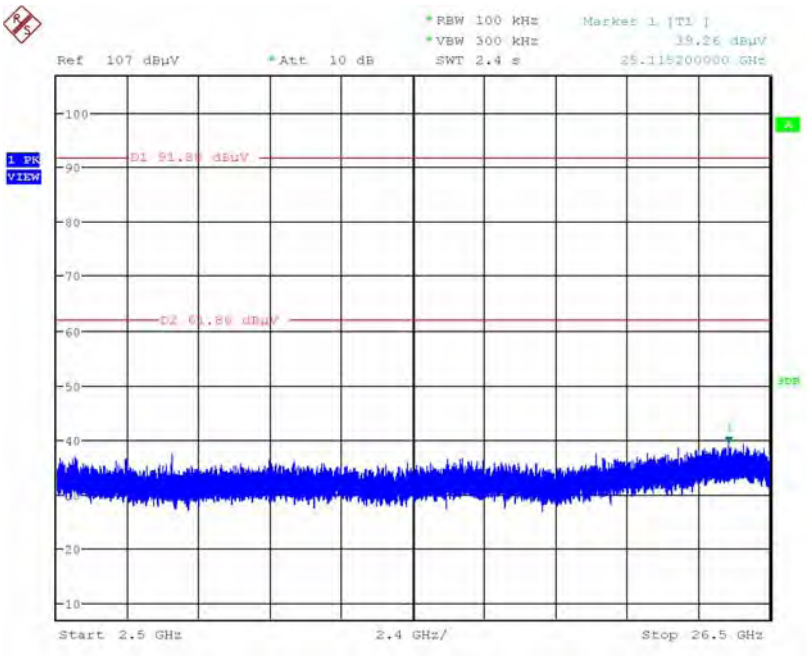
Date: 13.AUG.2013 23:51:52

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 2TX / 30MHz~2400MHz (down 30dBc)



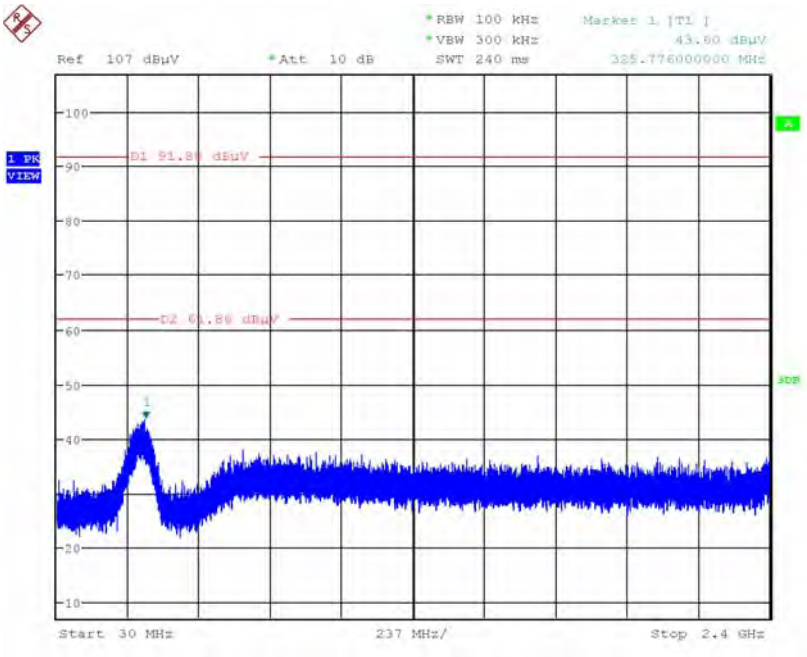
Date: 13.AUG.2013 23:54:07

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 2TX / 2500MHz~26500MHz (down 30dBc)



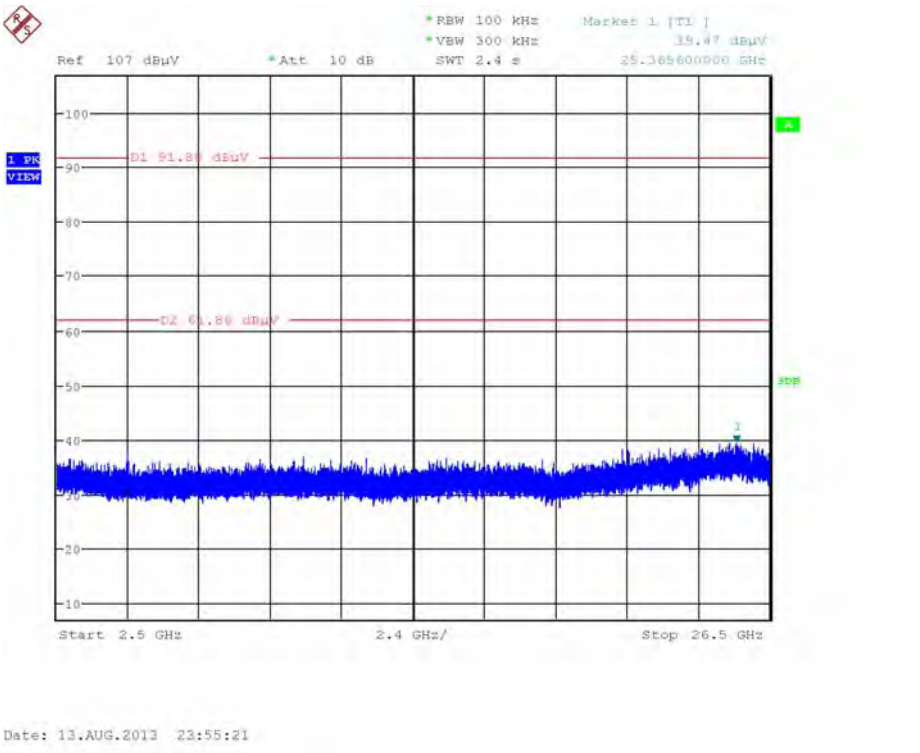
Date: 13.AUG.2013 23:54:37

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 2TX / 30MHz~2400MHz (down 30dBc)



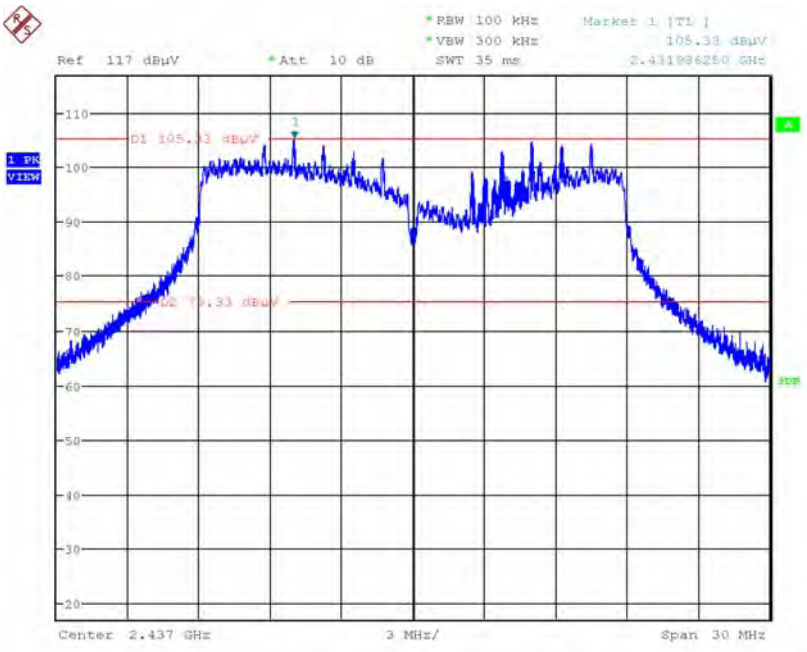
Date: 13.AUG.2013 23:55:52

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 2TX / 2500MHz~26500MHz (down 30dBc)



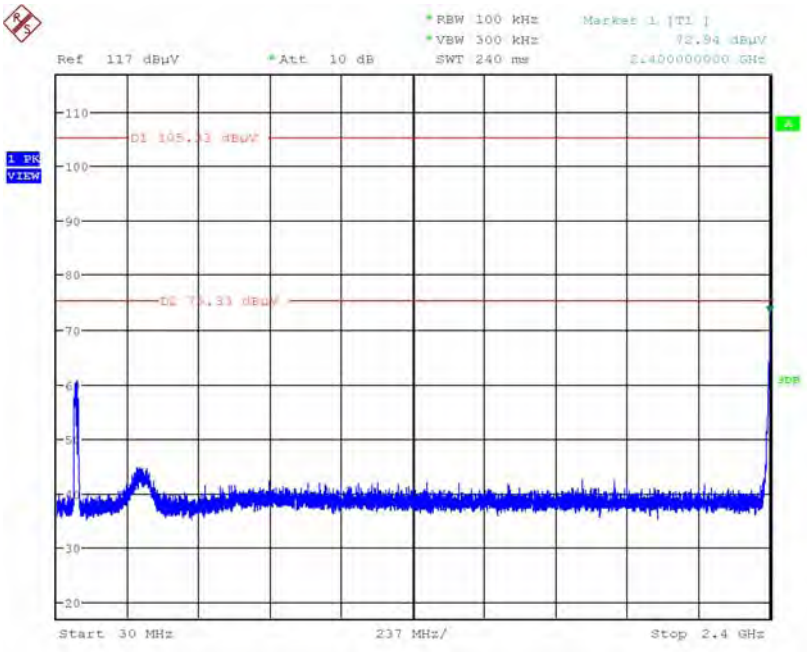
Date: 13.AUG.2013 23:55:21

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level / 3TX



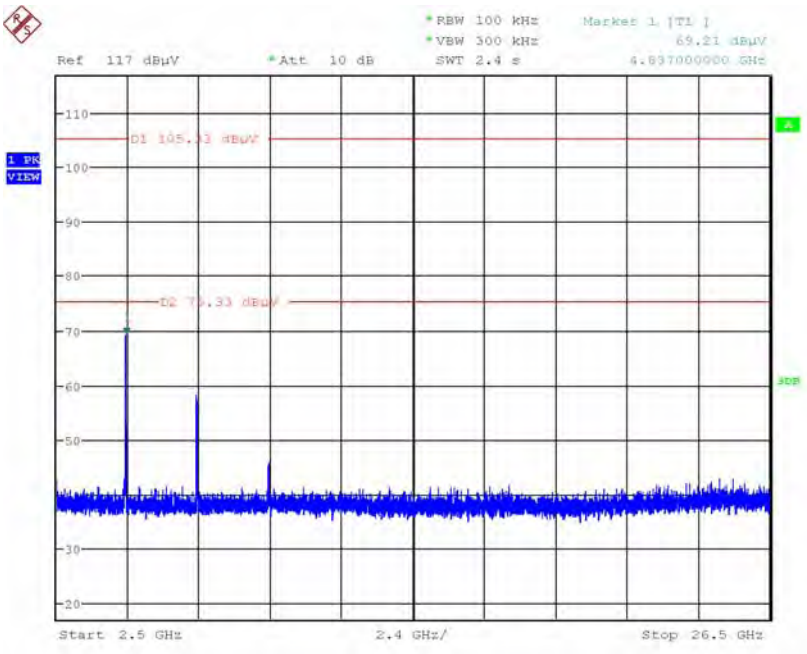
Date: 12.AUG.2013 17:22:18

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 3TX / 30MHz~2400MHz (down 30dBc)



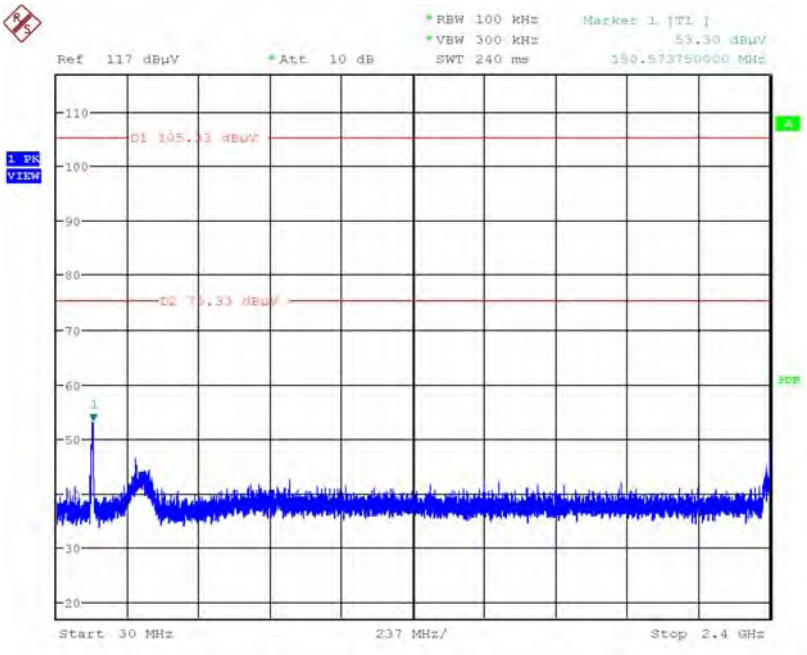
Date: 12.AUG.2013 17:22:49

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 1 / 3TX / 2500MHz~26500MHz (down 30dBc)



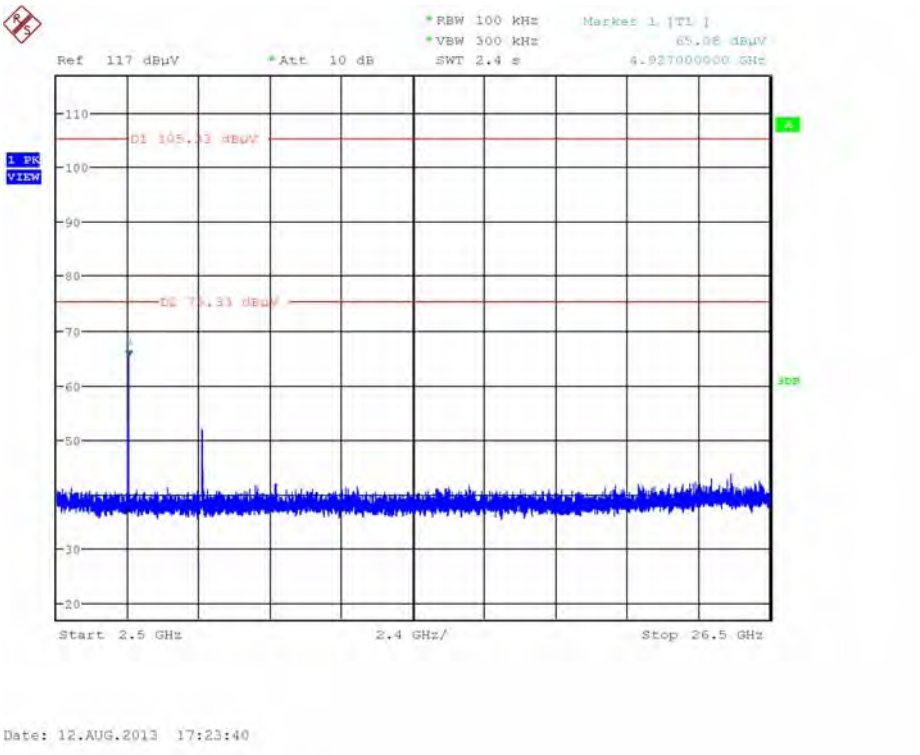
Date: 12.AUG.2013 17:23:08

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 3TX / 30MHz~2400MHz (down 30dBc)

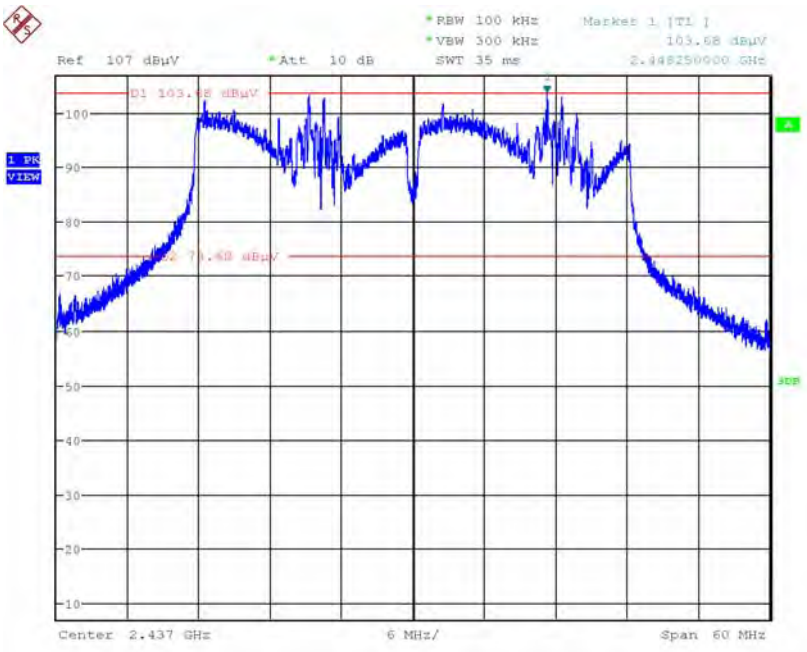


Date: 12.AUG.2013 17:23:56

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 11 / 3TX / 2500MHz~26500MHz (down 30dBc)

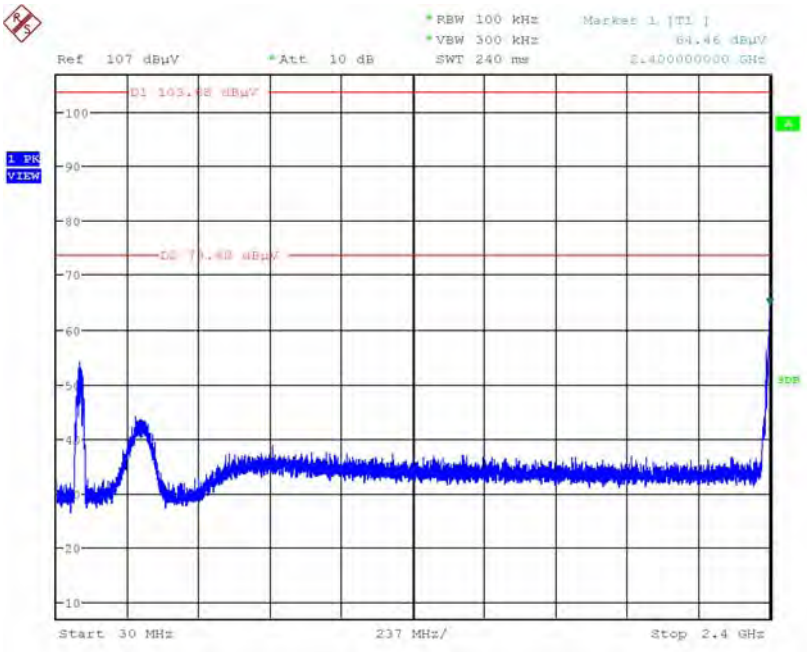


Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level / 3TX



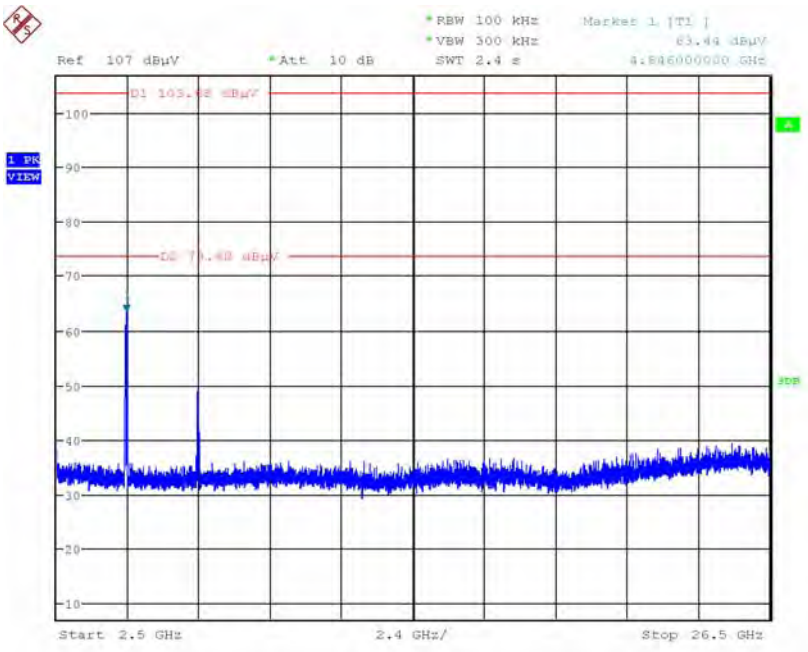
Date: 12.AUG.2013 17:12:40

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 3TX / 30MHz~2400MHz (down 30dBc)



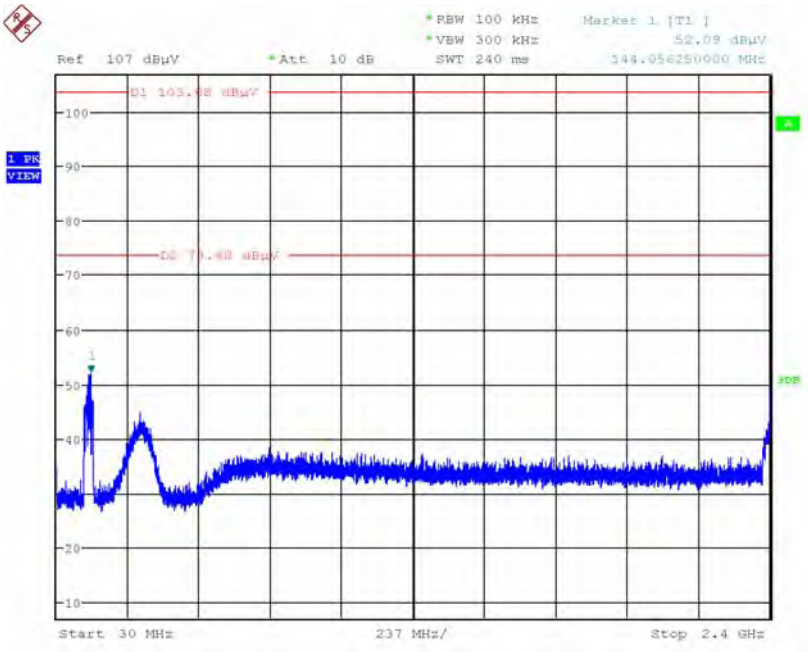
Date: 12.AUG.2013 17:13:16

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 3 / 3TX / 2500MHz~26500MHz (down 30dBc)



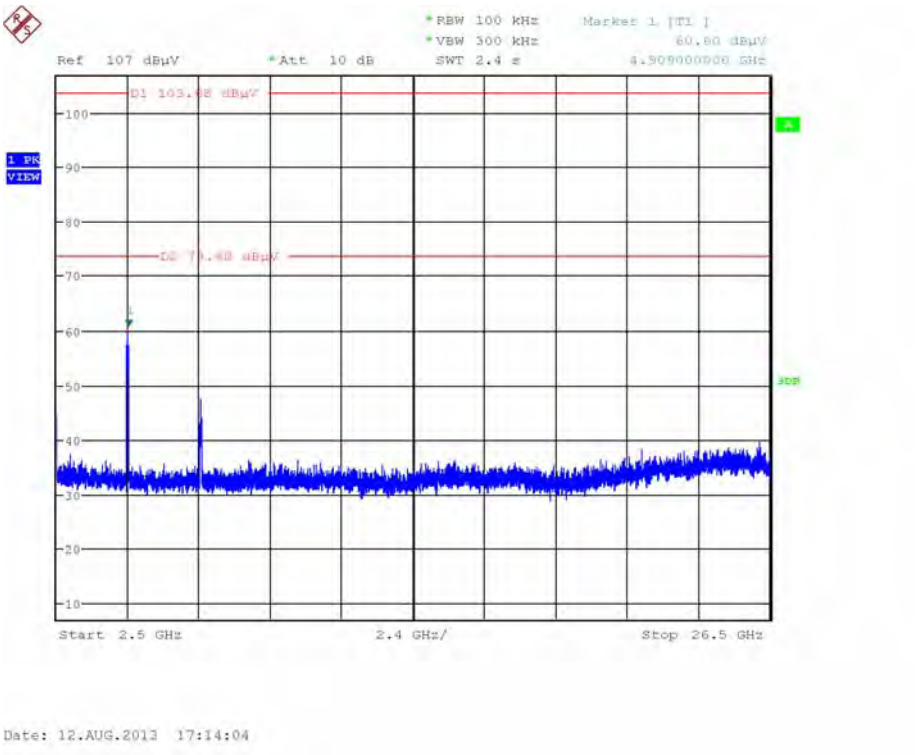
Date: 12.AUG.2013 17:13:37

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 3TX / 30MHz~2400MHz (down 30dBc)



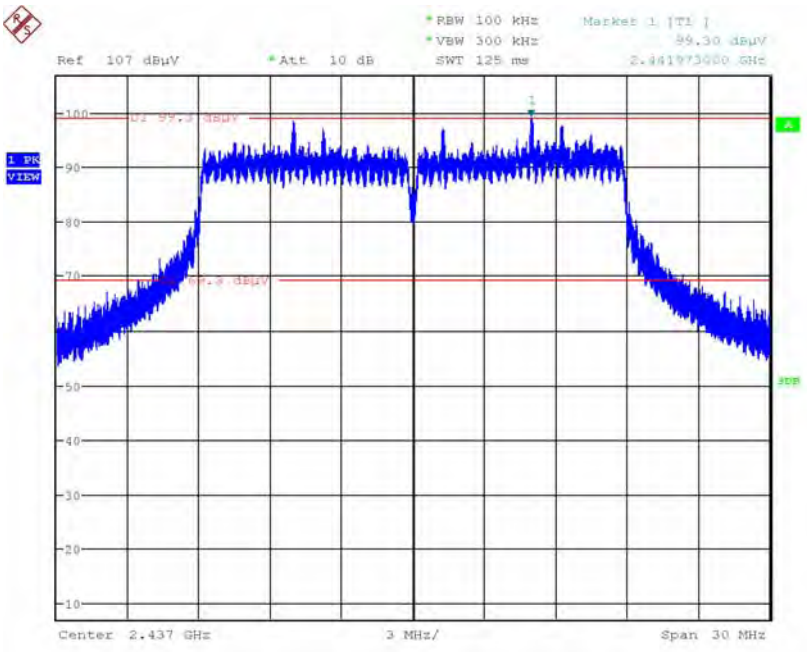
Date: 12.AUG.2013 17:14:24

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 9 / 3TX / 2500MHz~26500MHz (down 30dBc)

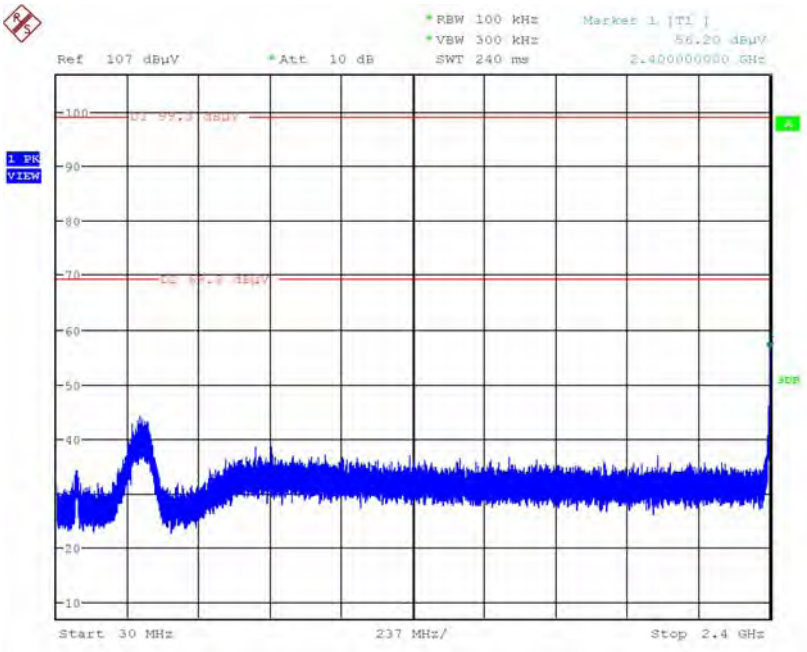


Date: 12.AUG.2013 17:14:04

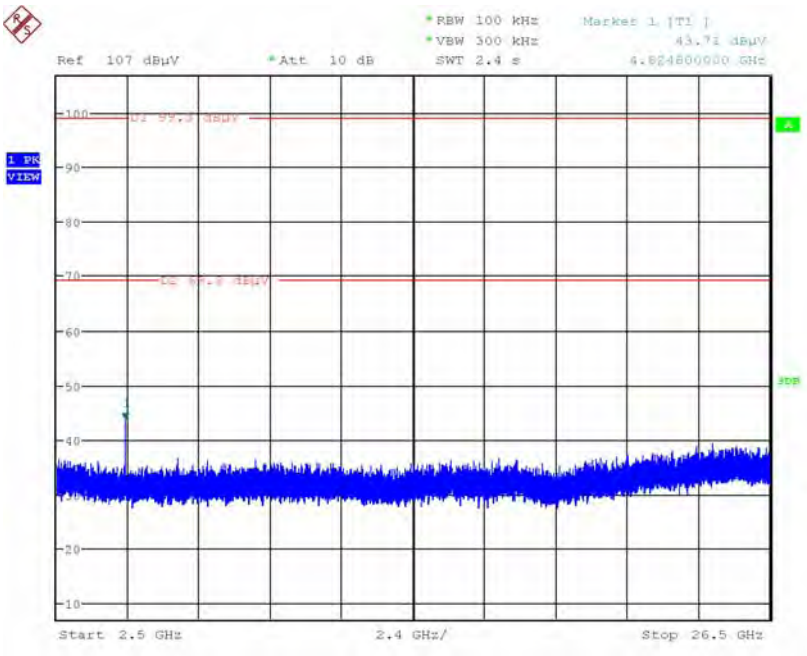
Plot on Configuration IEEE 802.11n MCS8 20MHz / Reference Level / 2TX



Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 1 / 2TX / 30MHz~2400MHz (down 30dBc)

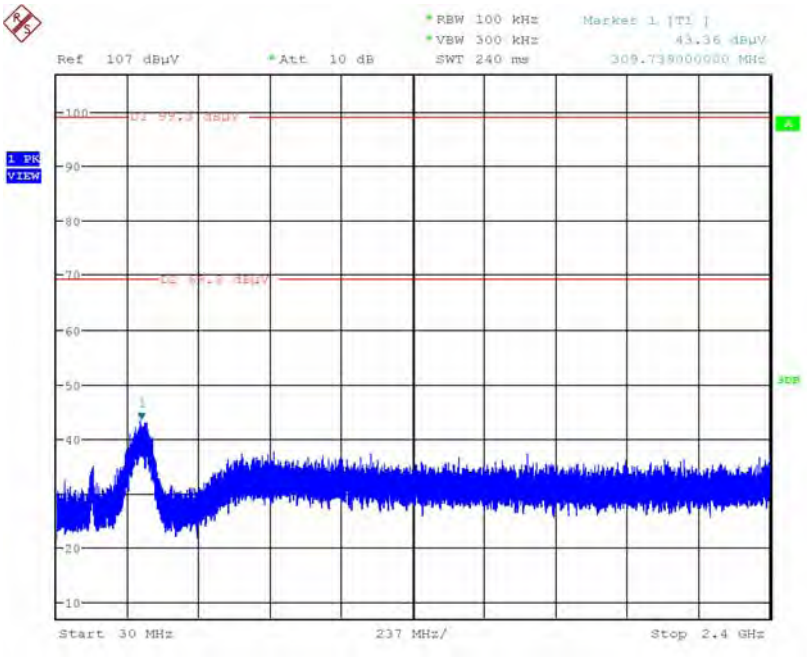


Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 1 / 2TX / 2500MHz~26500MHz (down 30dBc)



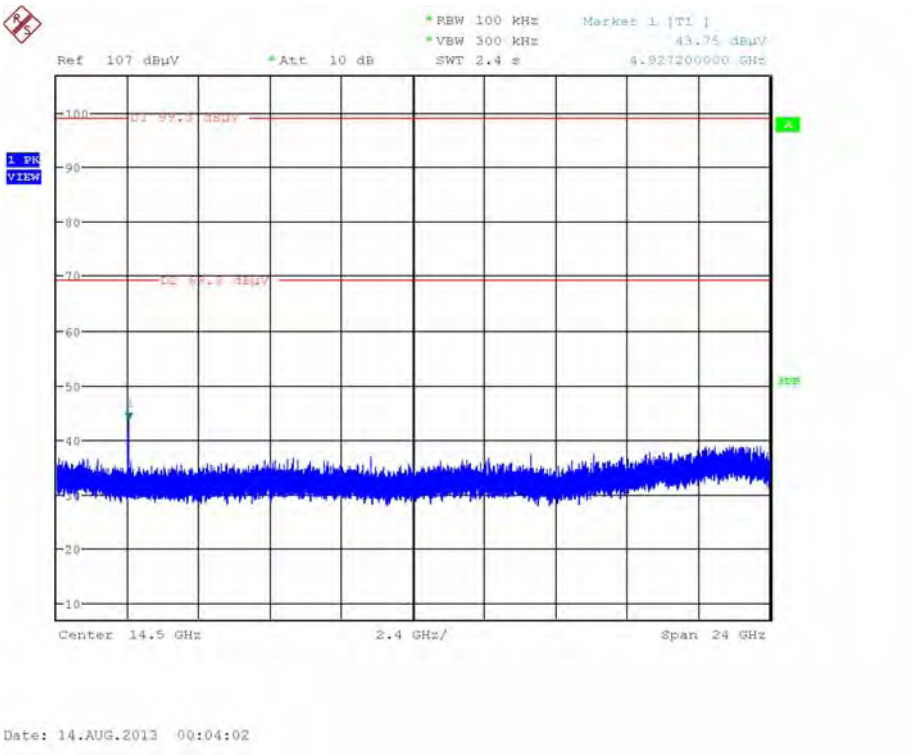
Date: 14.AUG.2013 00:03:16

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 11 / 2TX / 30MHz~2400MHz (down 30dBc)

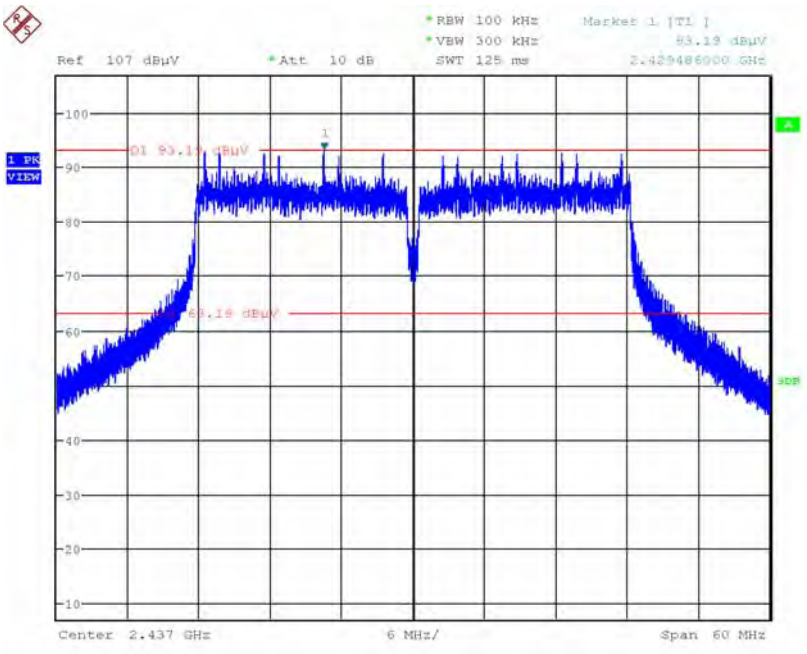


Date: 14.AUG.2013 00:04:31

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 11 / 2TX / 2500MHz~26500MHz (down 30dBc)

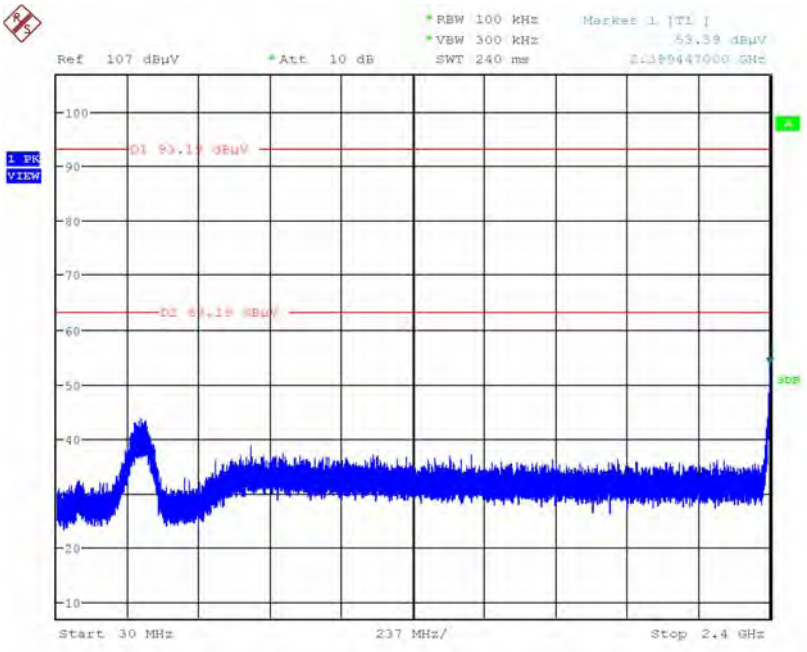


Plot on Configuration IEEE 802.11n MCS8 40MHz / Reference Level / 2TX



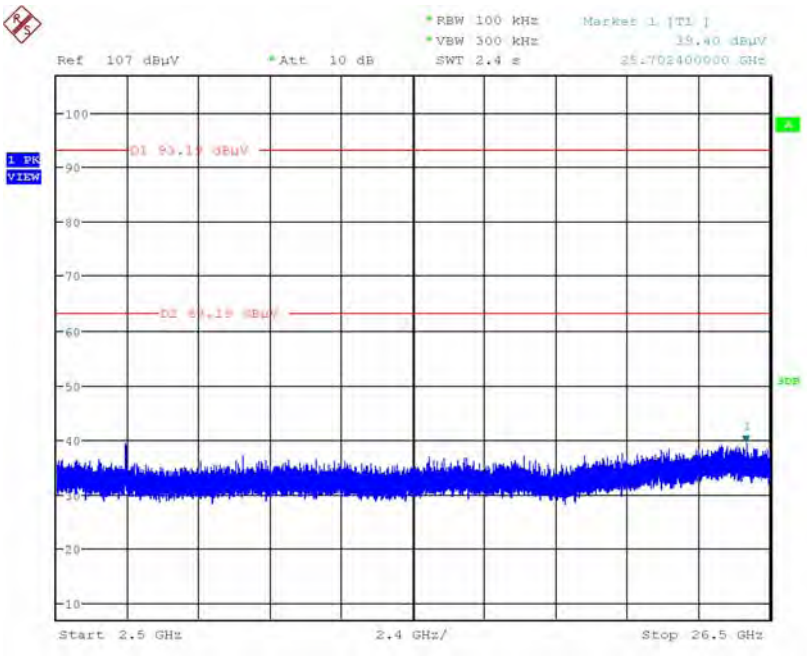
Date: 14.AUG.2013 00:07:20

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 3 / 2TX / 30MHz~2400MHz (down 30dBc)



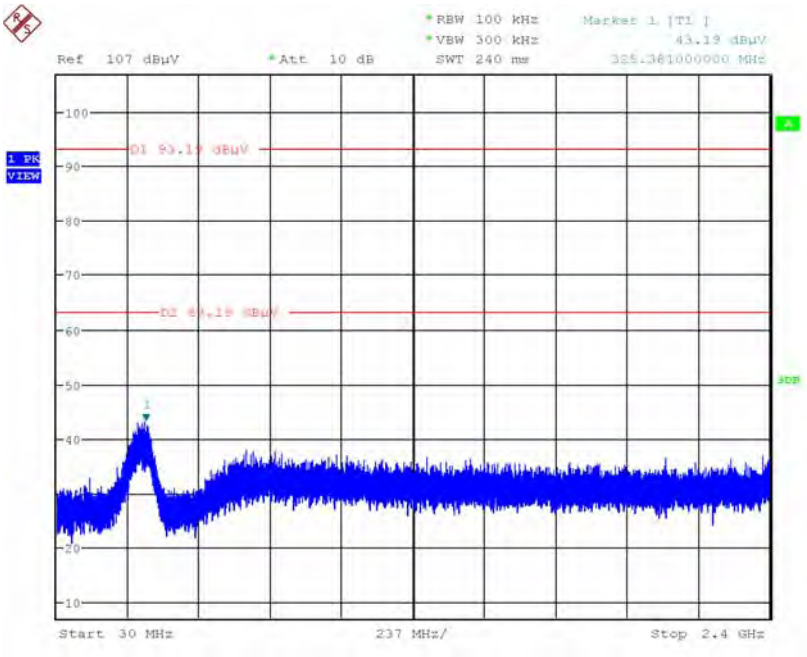
Date: 14.AUG.2013 00:09:54

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 3 / 2TX / 2500MHz~26500MHz (down 30dBc)



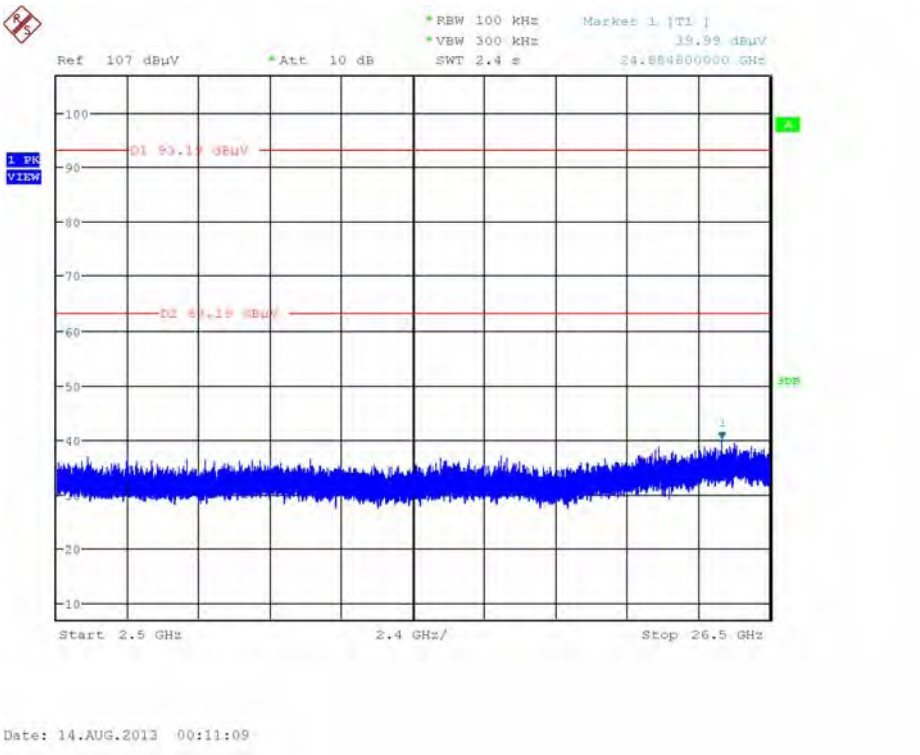
Date: 14.AUG.2013 00:10:29

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 9 / 2TX / 30MHz~2400MHz (down 30dBc)

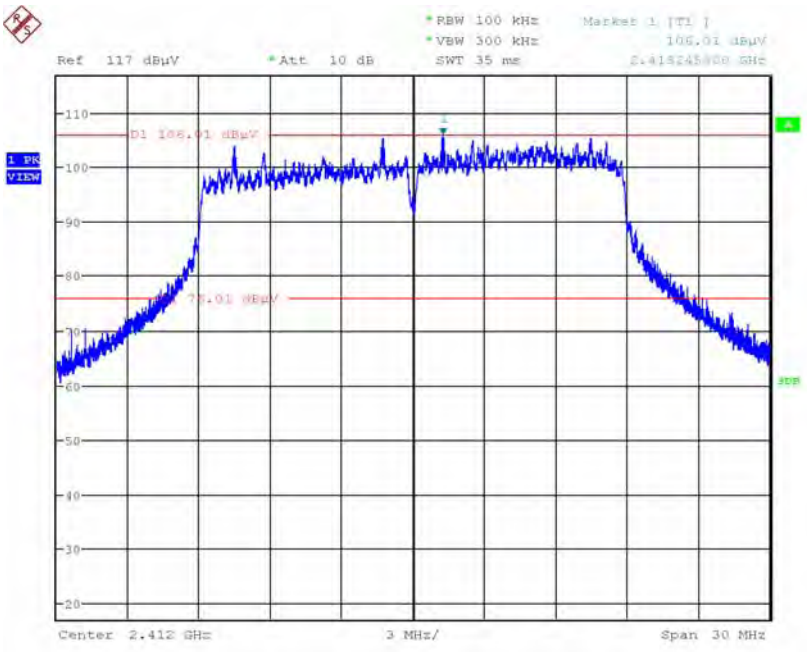


Date: 14.AUG.2013 00:11:36

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 9 / 2TX / 2500MHz~26500MHz (down 30dBc)

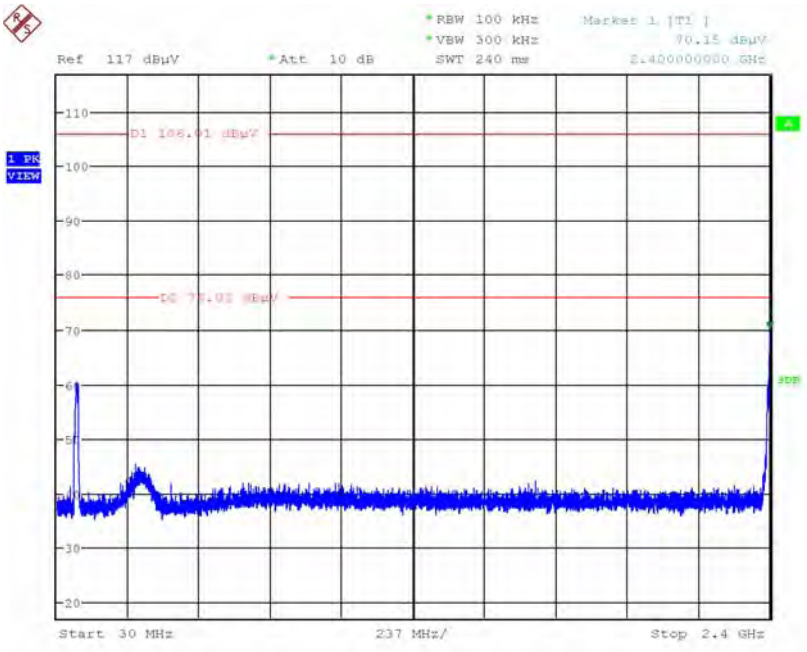


Plot on Configuration IEEE 802.11n MCS8 20MHz / Reference Level / 3TX



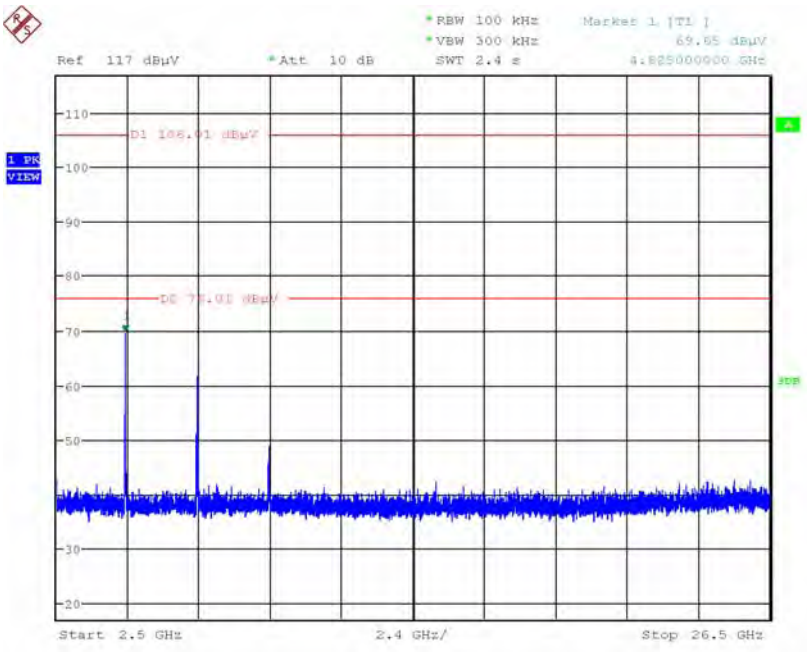
Date: 12.AUG.2013 17:07:09

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 1 / 3TX / 30MHz~2400MHz (down 30dBc)



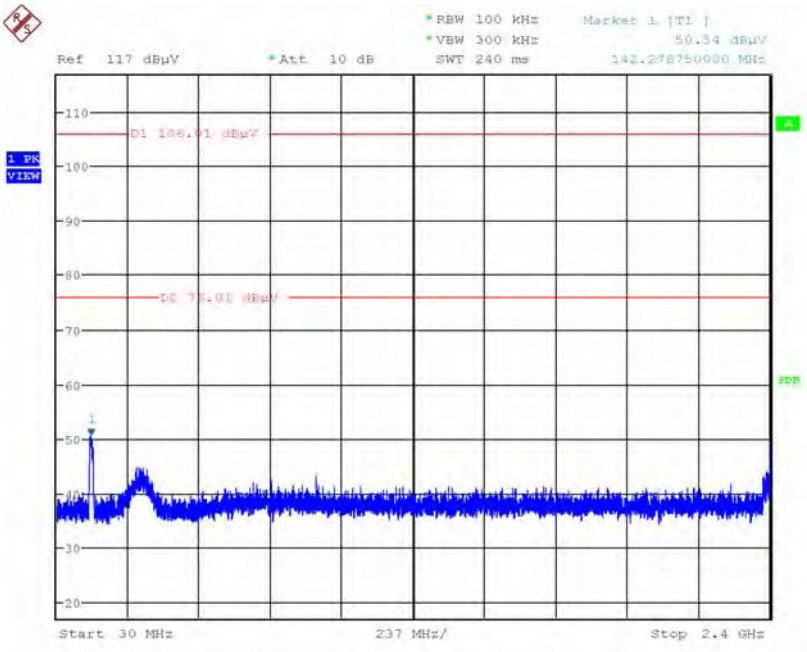
Date: 12.AUG.2013 17:07:34

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 1 / 3TX / 2500MHz~26500MHz (down 30dBc)



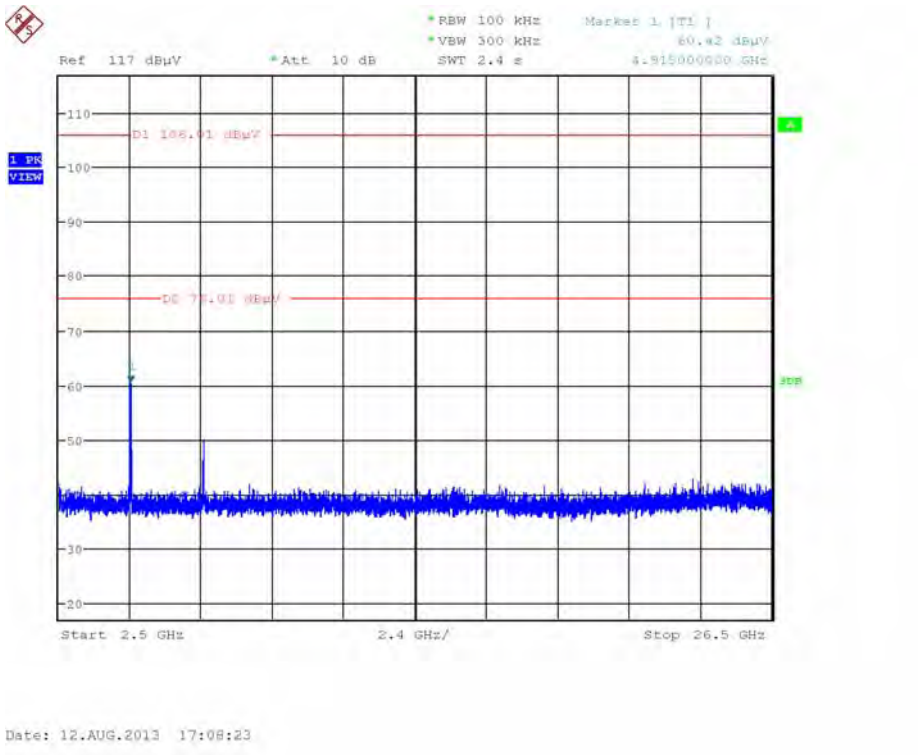
Date: 12.AUG.2013 17:07:51

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 11 / 3TX / 30MHz~2400MHz (down 30dBc)

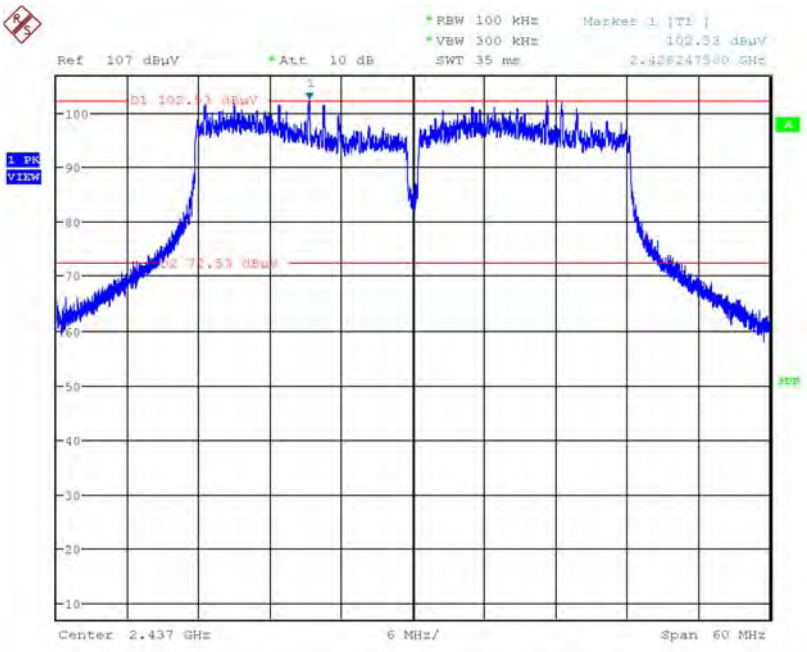


Date: 12.AUG.2013 17:08:38

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 11 / 3TX / 2500MHz~26500MHz (down 30dBc)

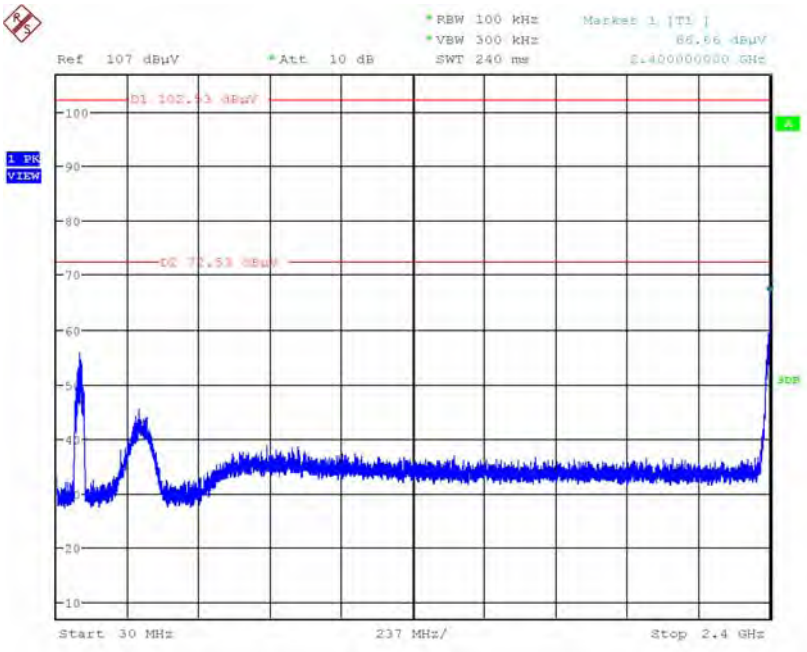


Plot on Configuration IEEE 802.11n MCS8 40MHz / Reference Level / 3TX



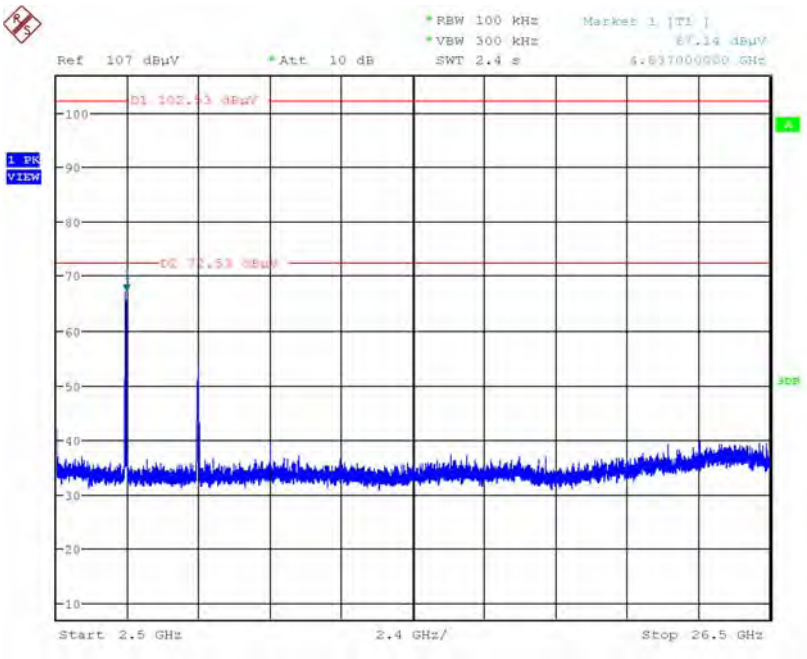
Date: 12.AUG.2013 17:03:35

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 3 / 3TX / 30MHz~2400MHz (down 30dBc)



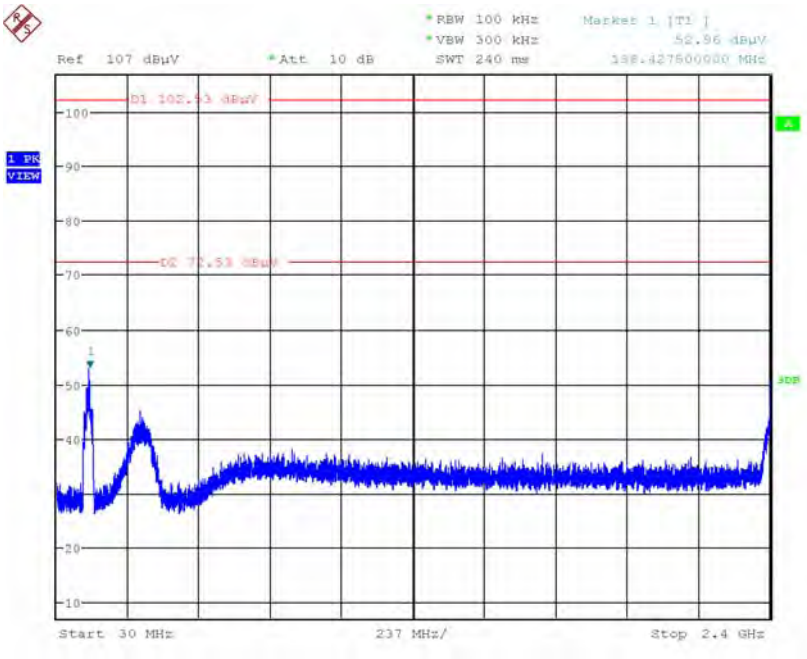
Date: 12.AUG.2013 17:04:21

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 3 / 3TX / 2500MHz~26500MHz (down 30dBc)



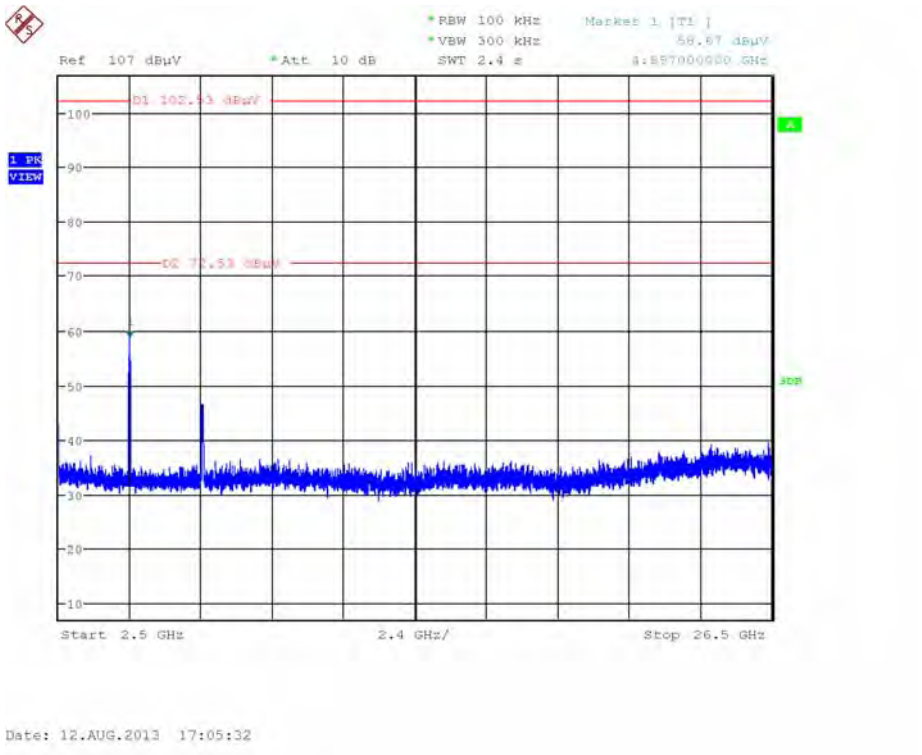
Date: 12.AUG.2013 17:04:53

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 9 / 3TX / 30MHz~2400MHz (down 30dBc)

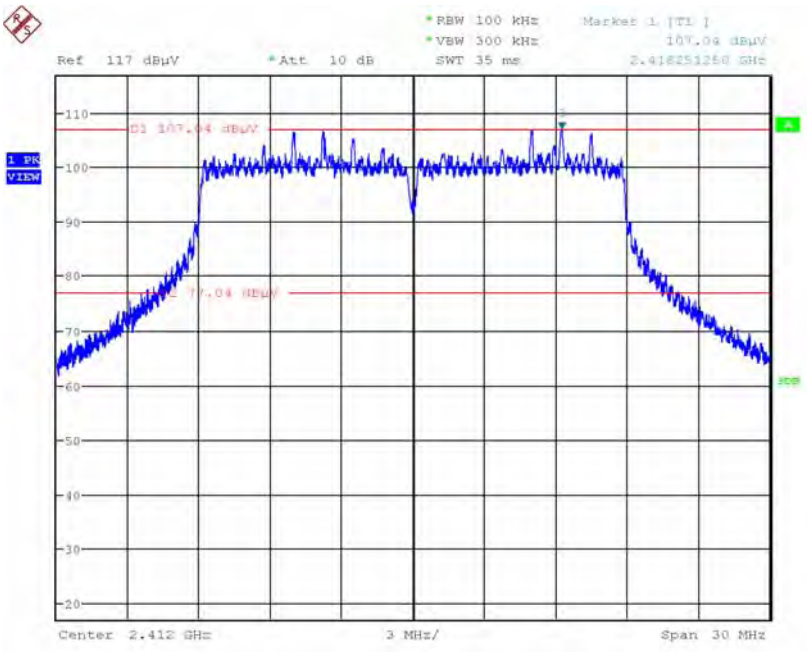


Date: 12.AUG.2013 17:05:48

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 9 / 3TX / 2500MHz~26500MHz (down 30dBc)

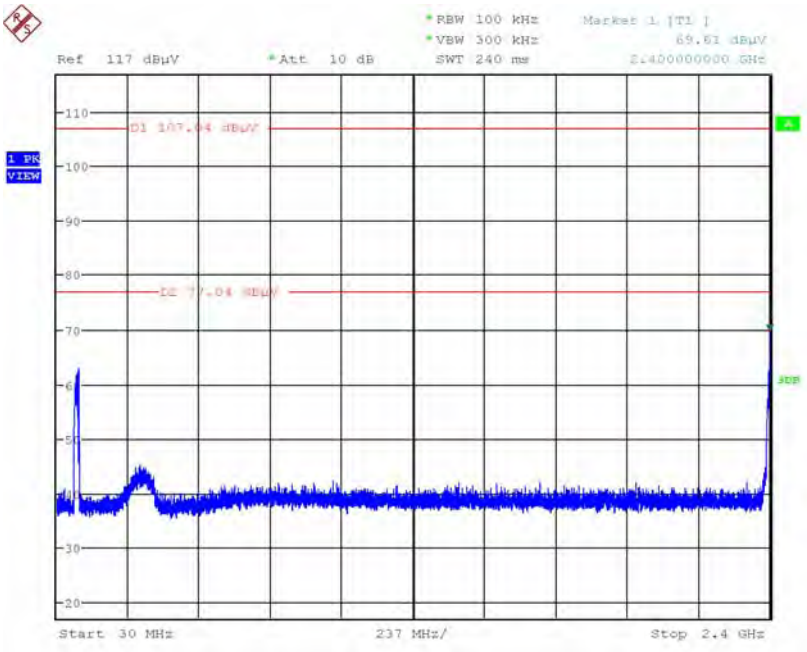


Plot on Configuration IEEE 802.11n MCS16 20MHz / Reference Level / 3TX



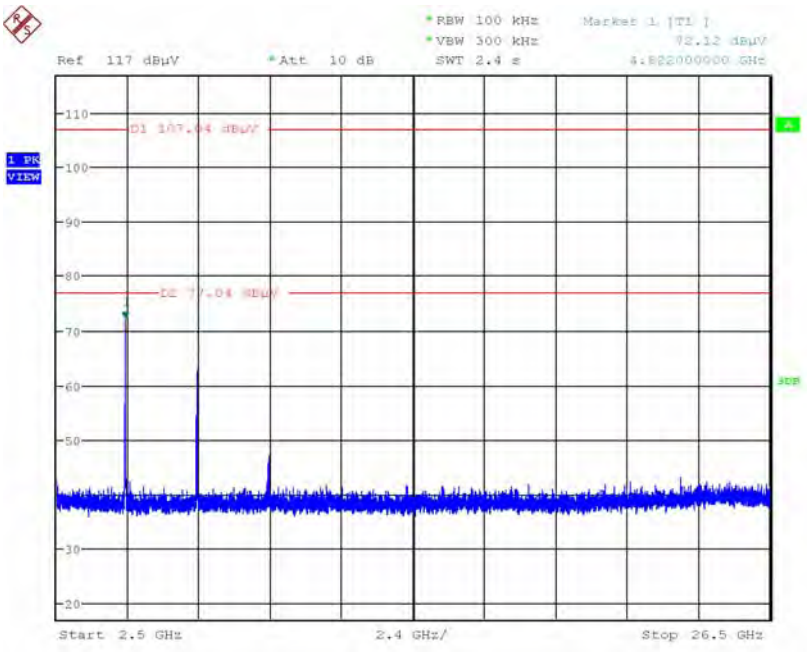
Date: 12.AUG.2013 16:57:23

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 3TX / 30MHz~2400MHz (down 30dBc)



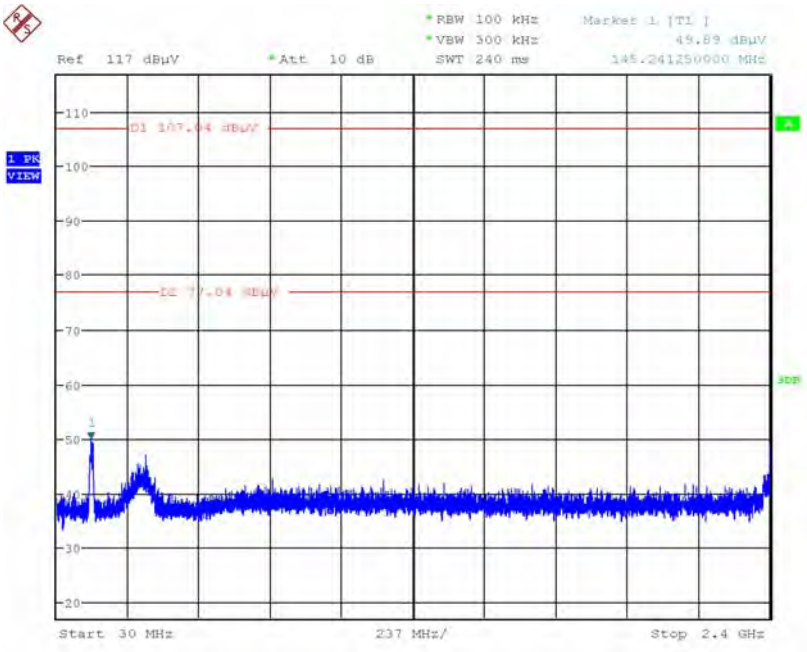
Date: 12.AUG.2013 16:57:48

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 1 / 3TX / 2500MHz~26500MHz (down 30dBc)



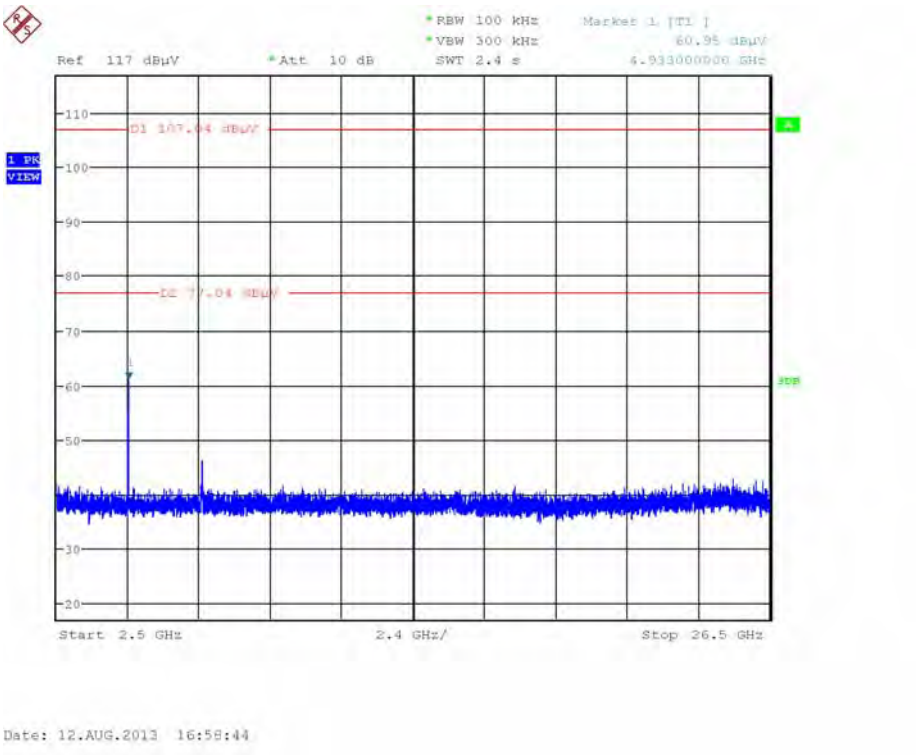
Date: 12.AUG.2013 16:58:11

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 3TX / 30MHz~2400MHz (down 30dBc)

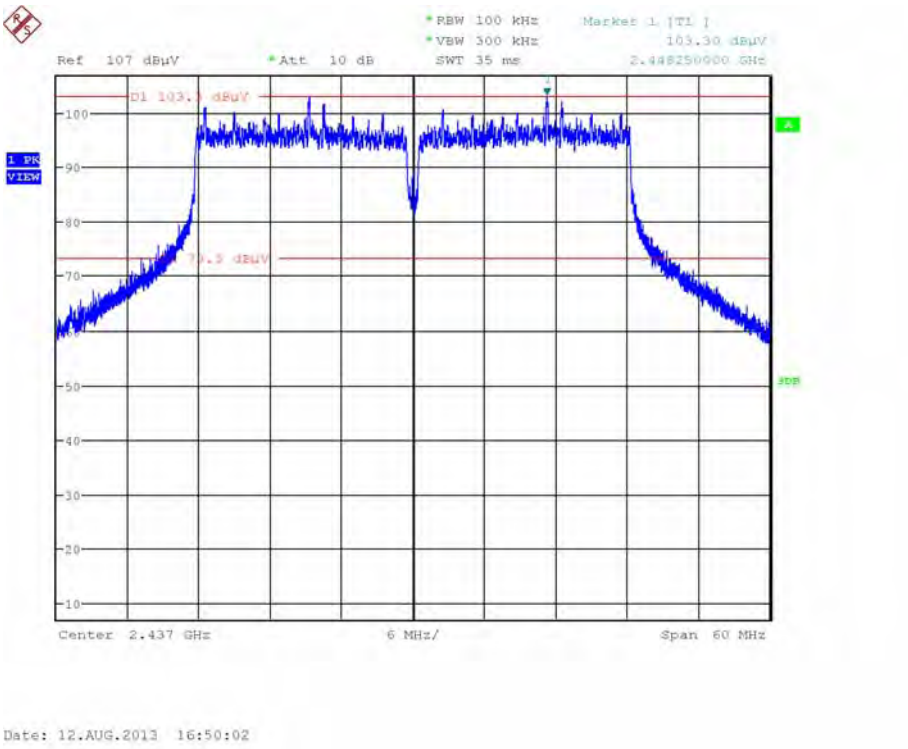


Date: 12.AUG.2013 16:58:59

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 11 / 3TX / 2500MHz~26500MHz (down 30dBc)

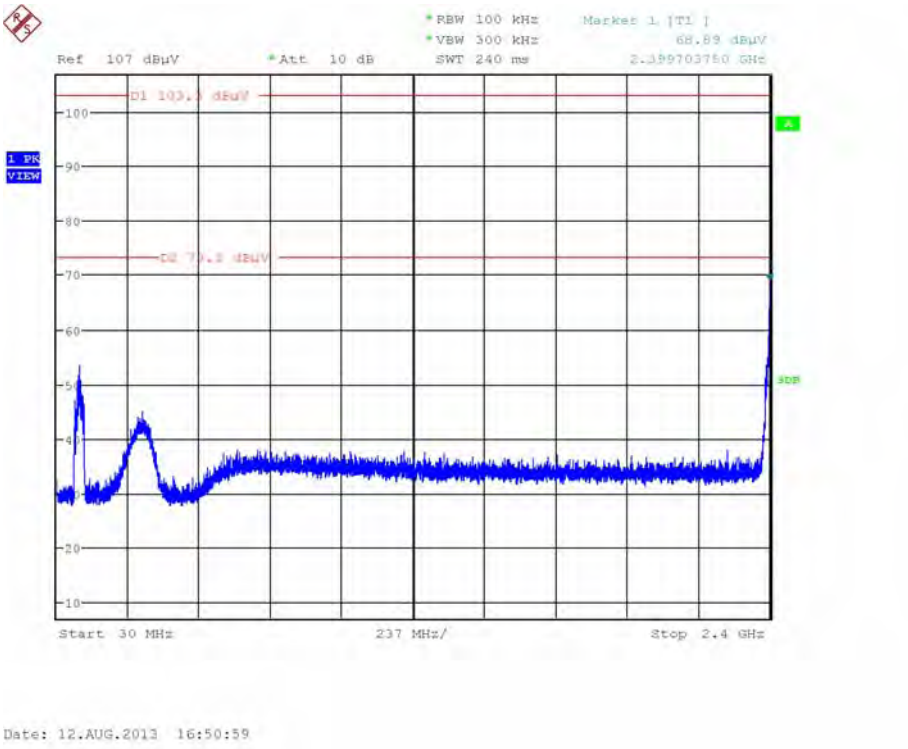


Plot on Configuration IEEE 802.11n MCS16 40MHz / Reference Level / 3TX



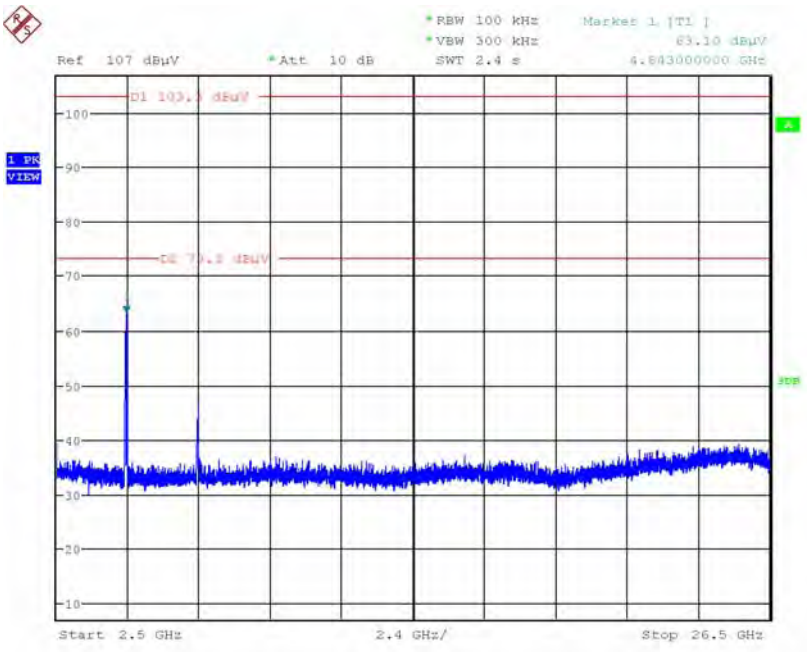
Date: 12.AUG.2013 16:50:02

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 3TX / 30MHz~2400MHz (down 30dBc)



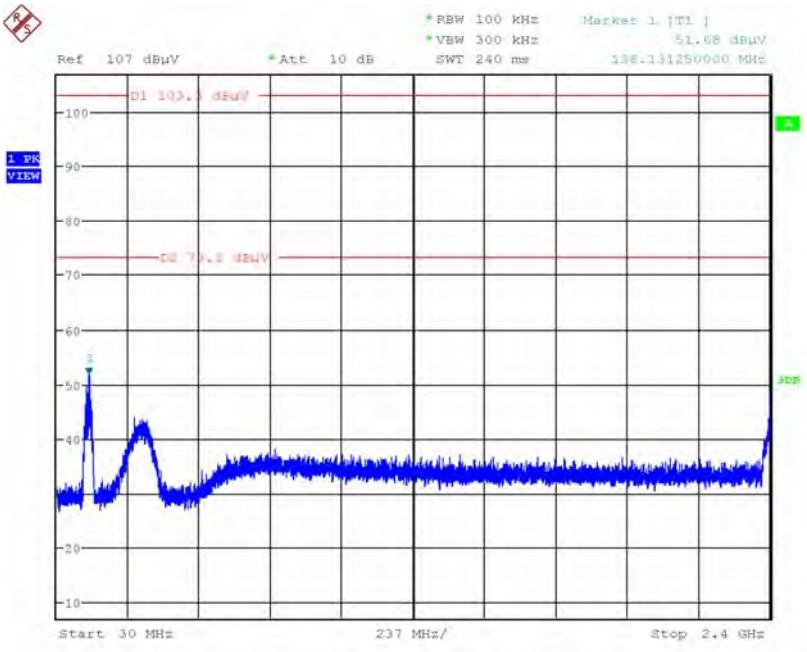
Date: 12.AUG.2013 16:50:59

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 3 / 3TX / 2500MHz~26500MHz (down 30dBc)



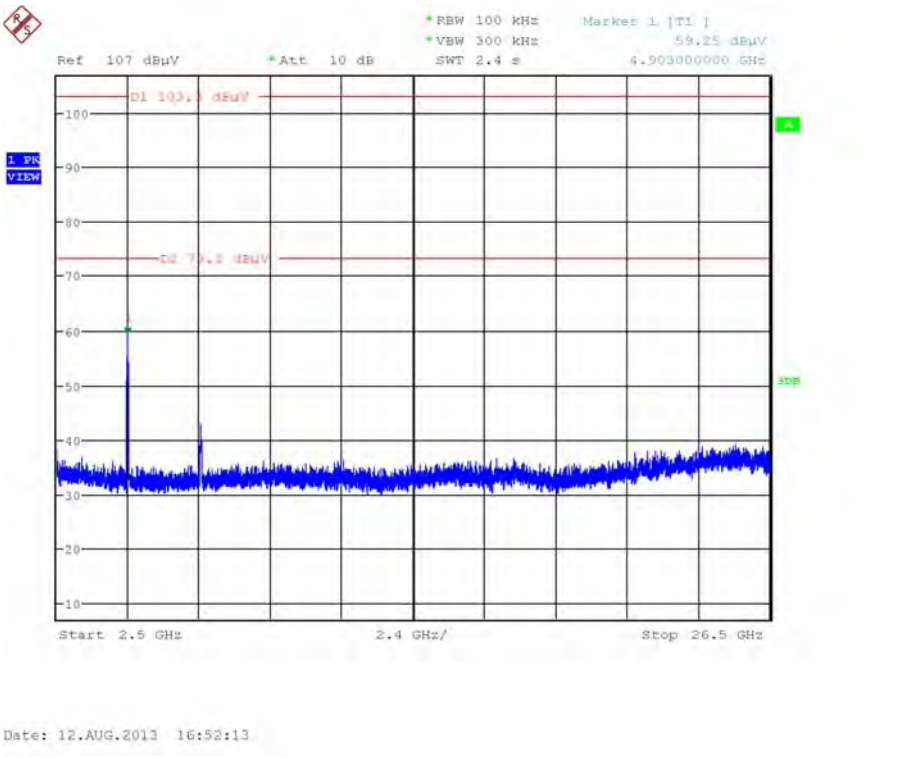
Date: 12.AUG.2013 16:51:34

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 3TX / 30MHz~2400MHz (down 30dBc)

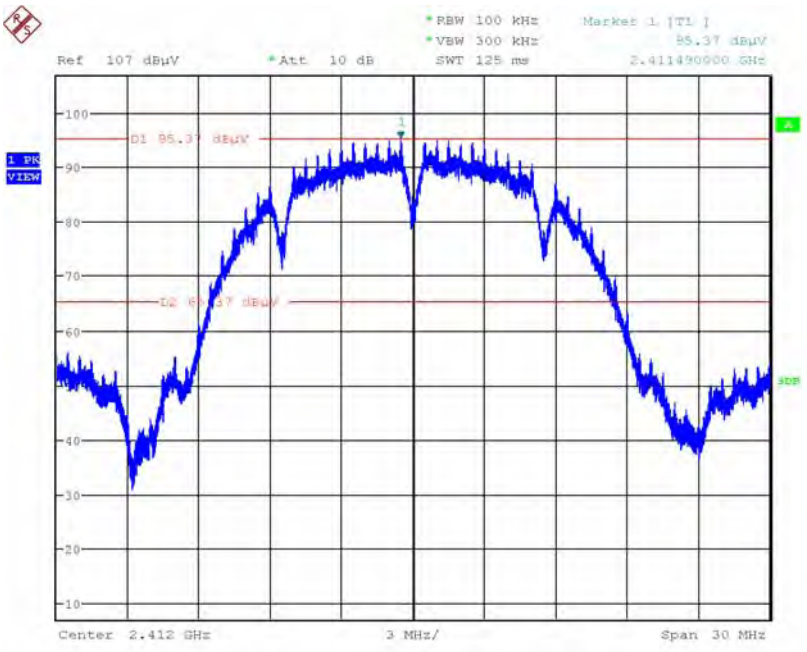


Date: 12.AUG.2013 16:53:06

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 9 / 3TX / 2500MHz~26500MHz (down 30dBc)

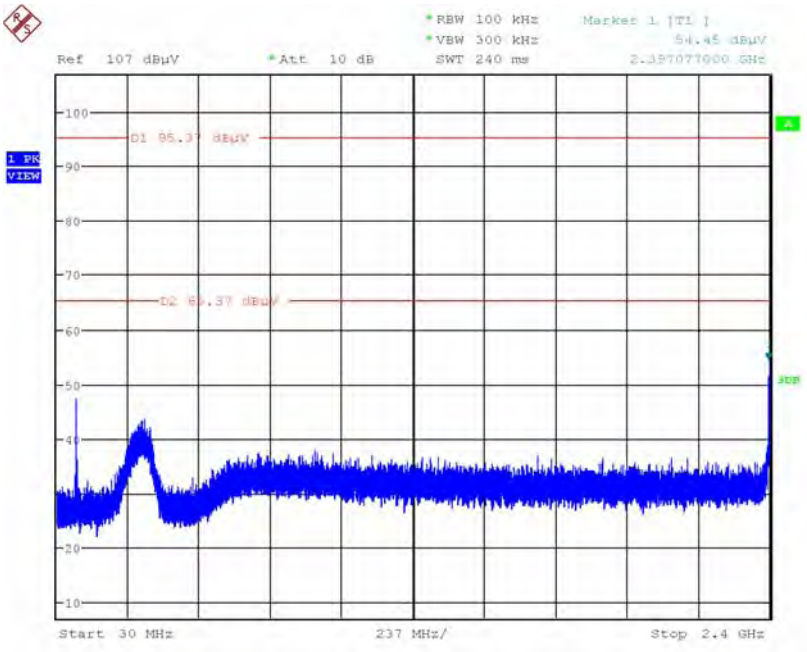


Plot on Configuration IEEE 802.11b / Reference Level / 1TX



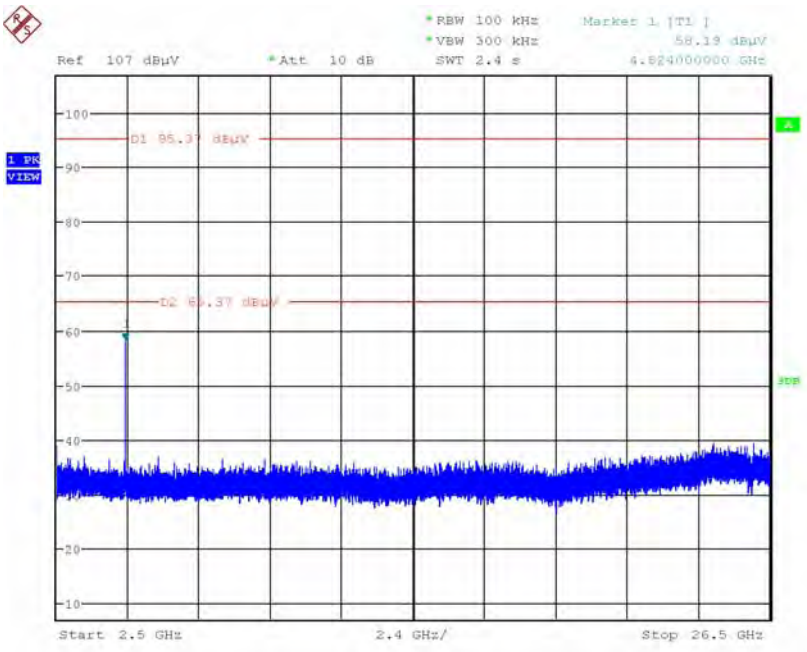
Date: 14.AUG.2013 00:16:53

Plot on Configuration IEEE 802.11b / CH 1 / 1TX / 30MHz~2400MHz (down 30dBc)



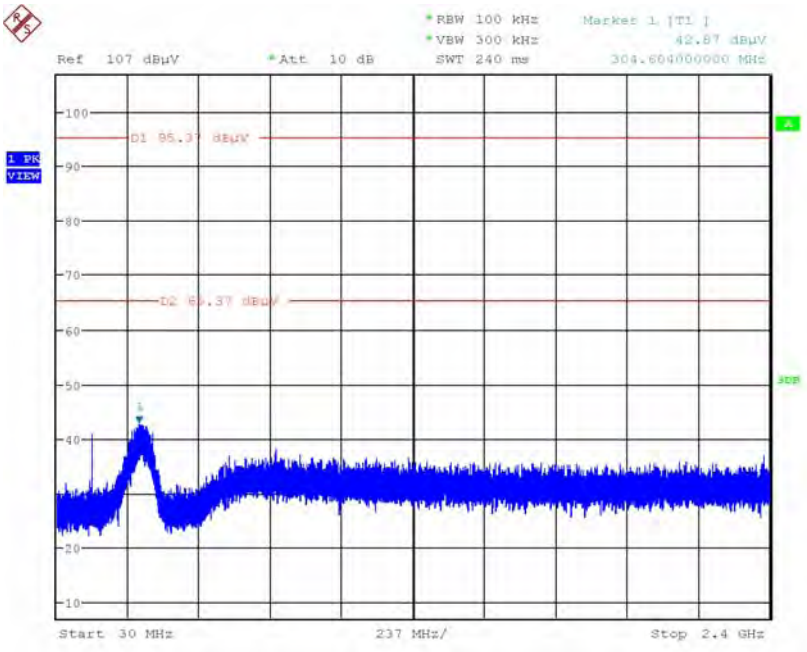
Date: 14.AUG.2013 00:17:27

Plot on Configuration IEEE 802.11b / CH 1 / 1TX / 2500MHz~26500MHz (down 30dBc)



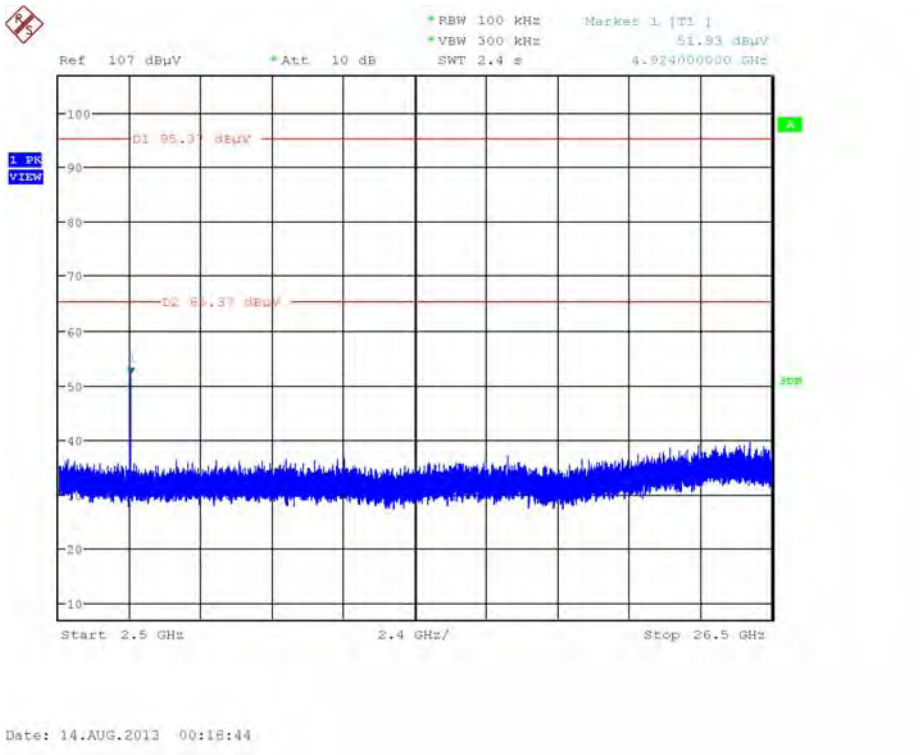
Date: 14.AUG.2013 00:17:58

Plot on Configuration IEEE 802.11b / CH 11 / 1TX / 30MHz~2400MHz (down 30dBc)

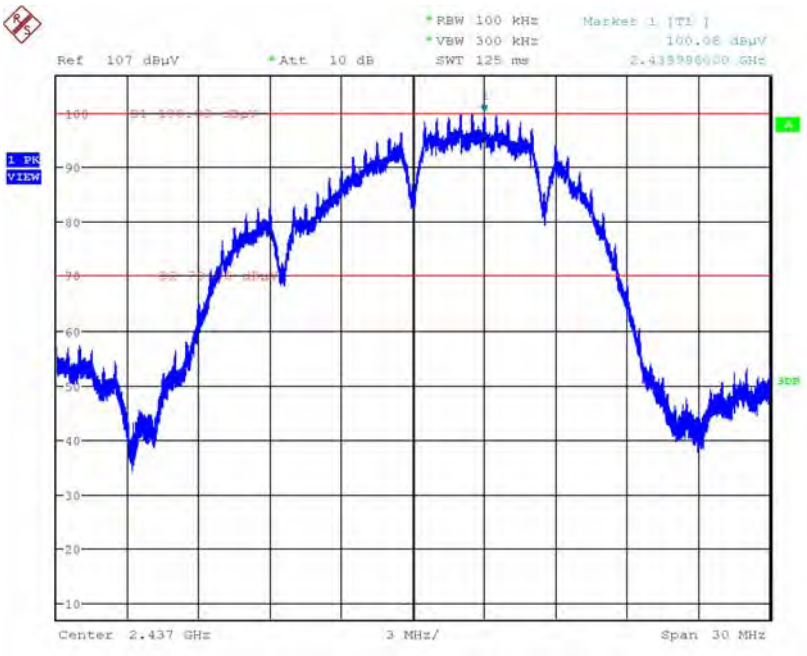


Date: 14.AUG.2013 00:19:14

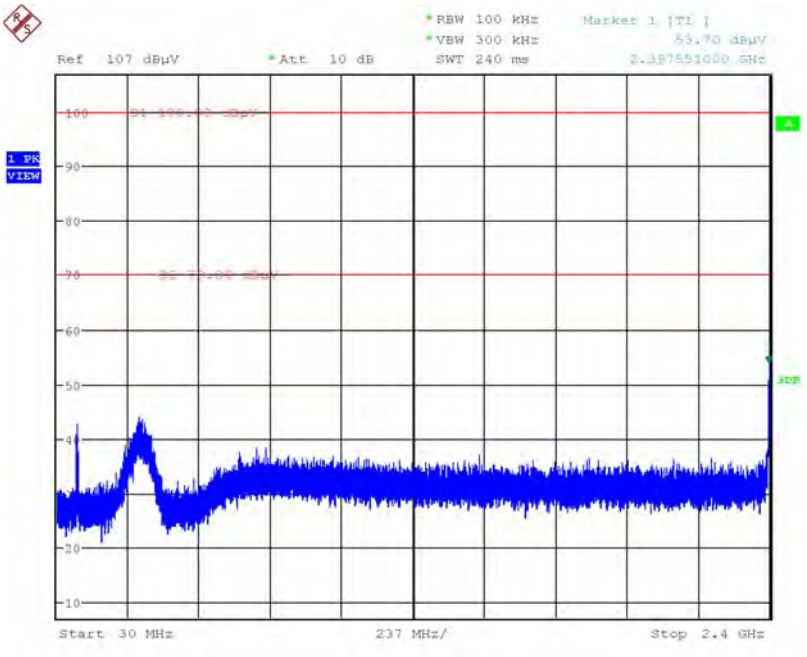
Plot on Configuration IEEE 802.11b / CH 11 / 1TX / 2500MHz~26500MHz (down 30dBc)



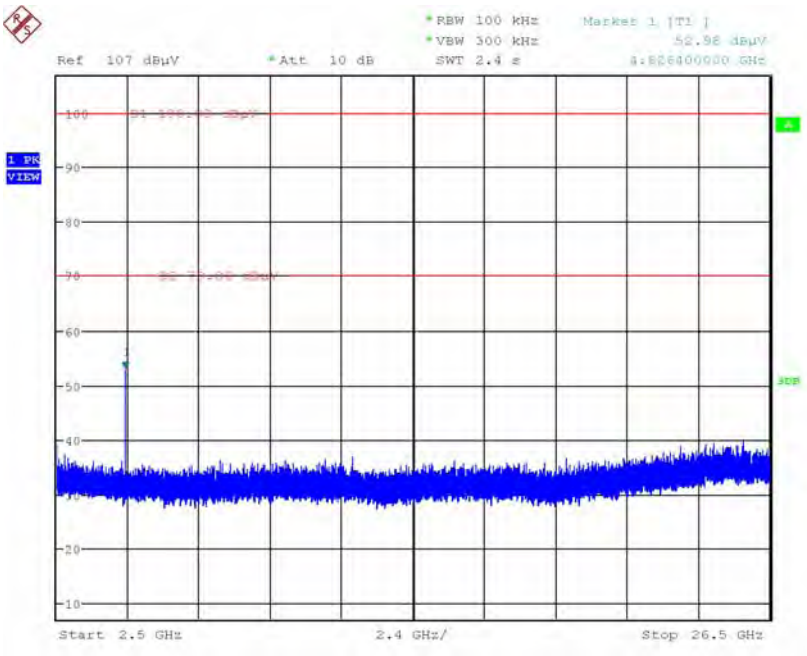
Plot on Configuration IEEE 802.11b / Reference Level / 2TX



Plot on Configuration IEEE 802.11b / CH 1 / 2TX / 30MHz~2400MHz (down 30dBc)

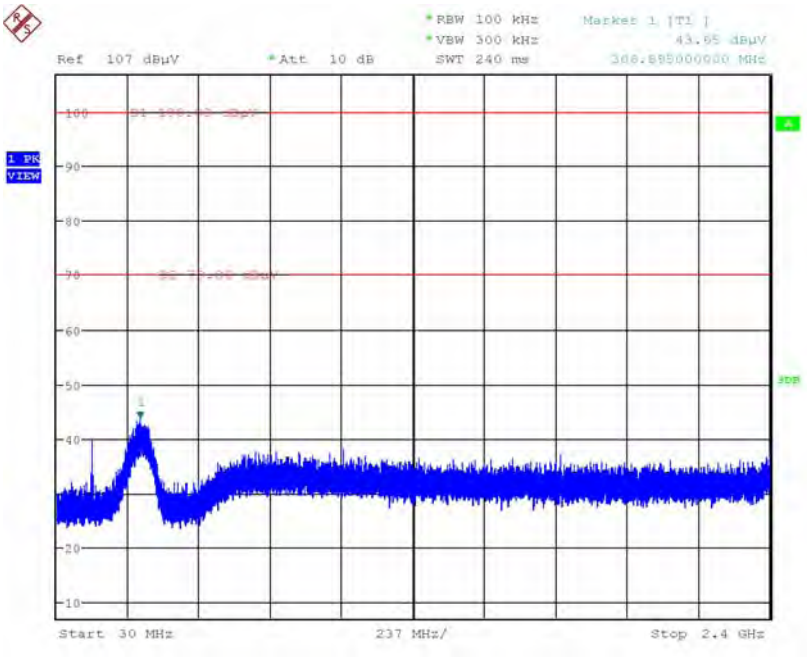


Plot on Configuration IEEE 802.11b / CH 1 / 2TX / 2500MHz~26500MHz (down 30dBc)



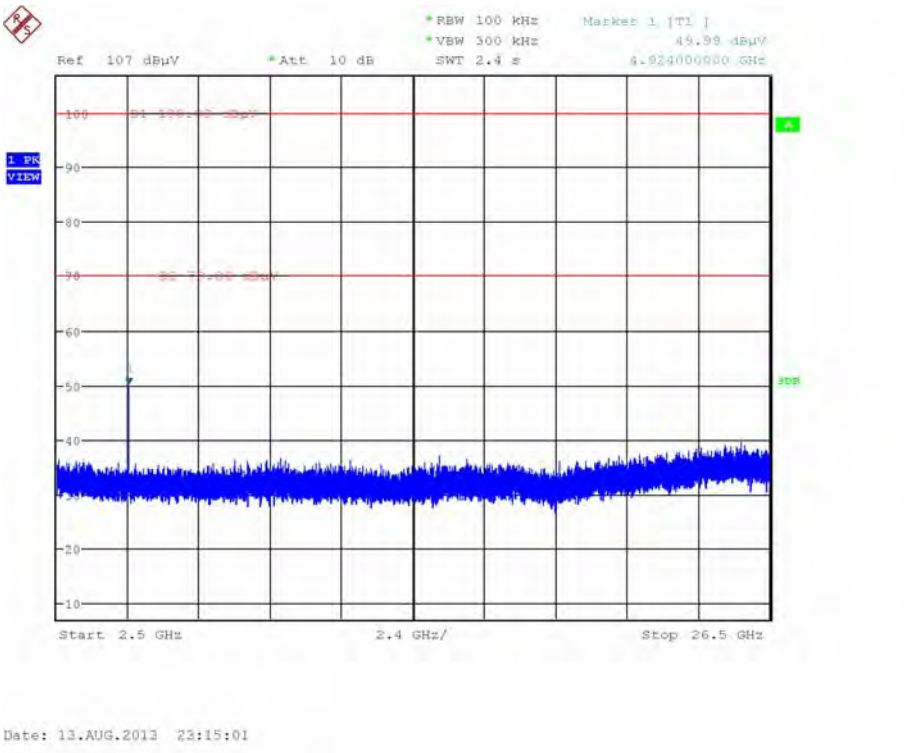
Date: 13.AUG.2013 23:13:07

Plot on Configuration IEEE 802.11b / CH 11 / 2TX / 30MHz~2400MHz (down 30dBc)

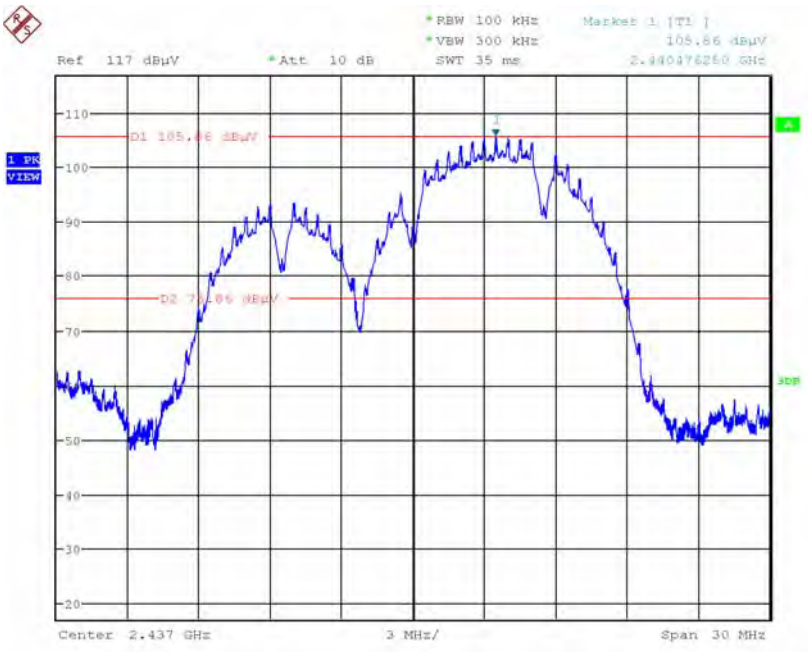


Date: 13.AUG.2013 23:14:32

Plot on Configuration IEEE 802.11b / CH 11 / 2TX / 2500MHz~26500MHz (down 30dBc)

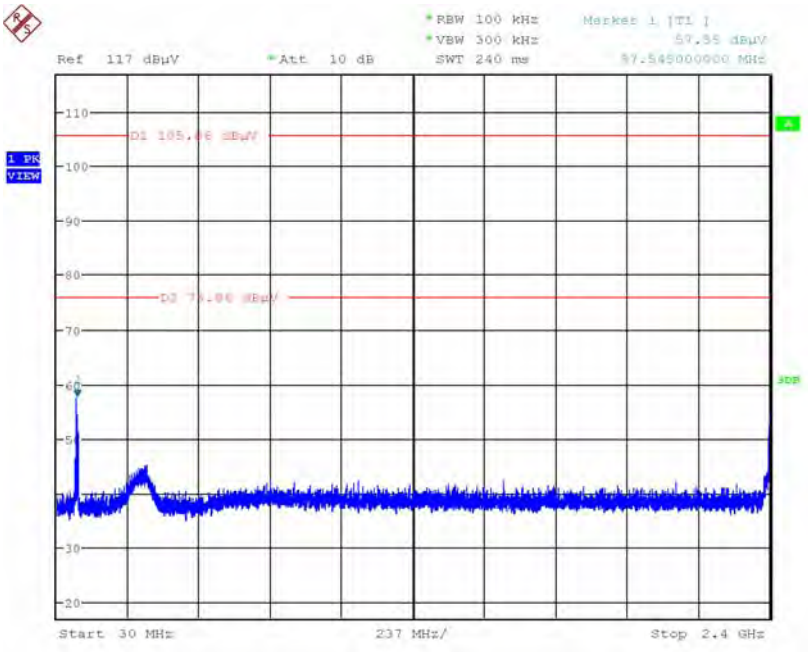


Plot on Configuration IEEE 802.11b / Reference Level / 3TX



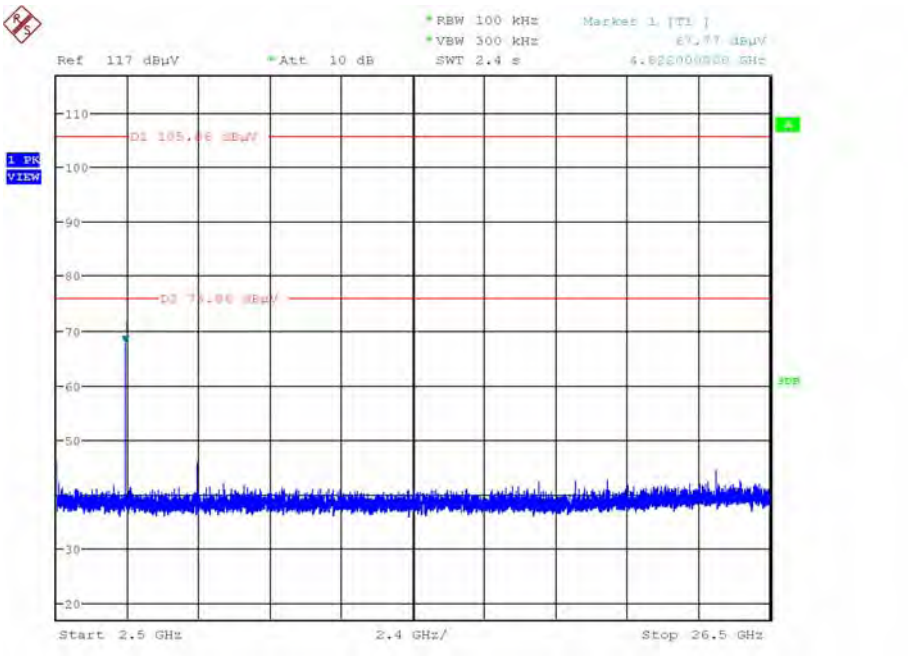
Date: 12.AUG.2013 17:15:41

Plot on Configuration IEEE 802.11b / CH 1 / 3TX / 30MHz~2400MHz (down 30dBc)



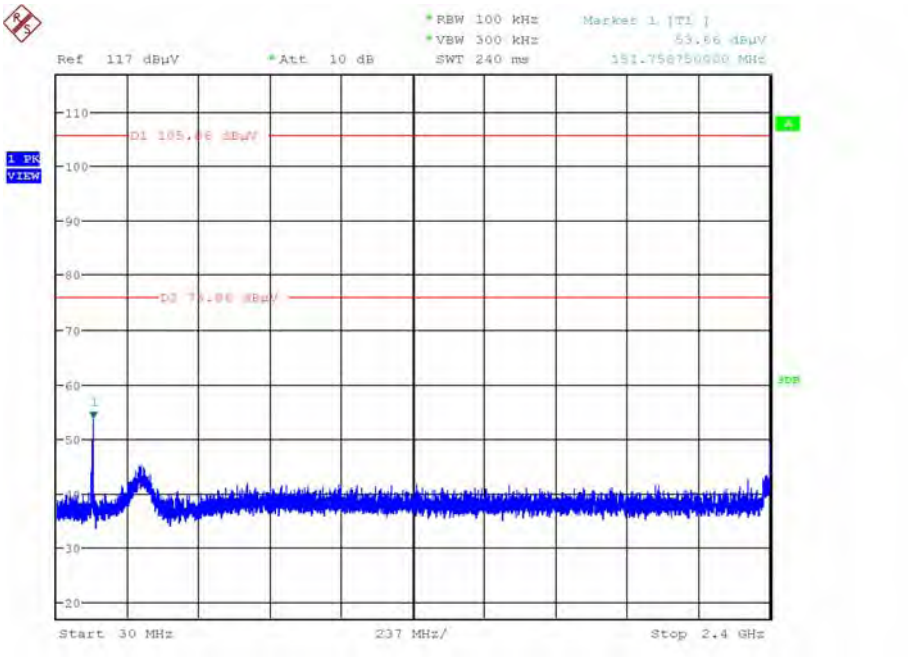
Date: 12.AUG.2013 17:16:54

Plot on Configuration IEEE 802.11b / CH 1 / 3TX / 2500MHz~26500MHz (down 30dBc)



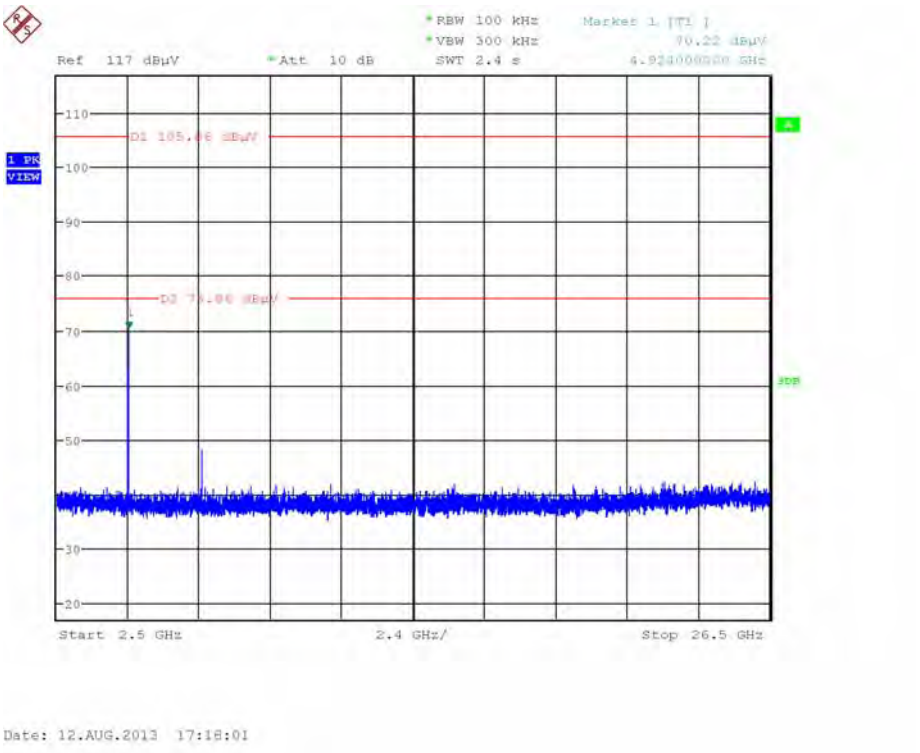
Date: 12.AUG.2013 17:17:17

Plot on Configuration IEEE 802.11b / CH 11 / 3TX / 30MHz~2400MHz (down 30dBc)

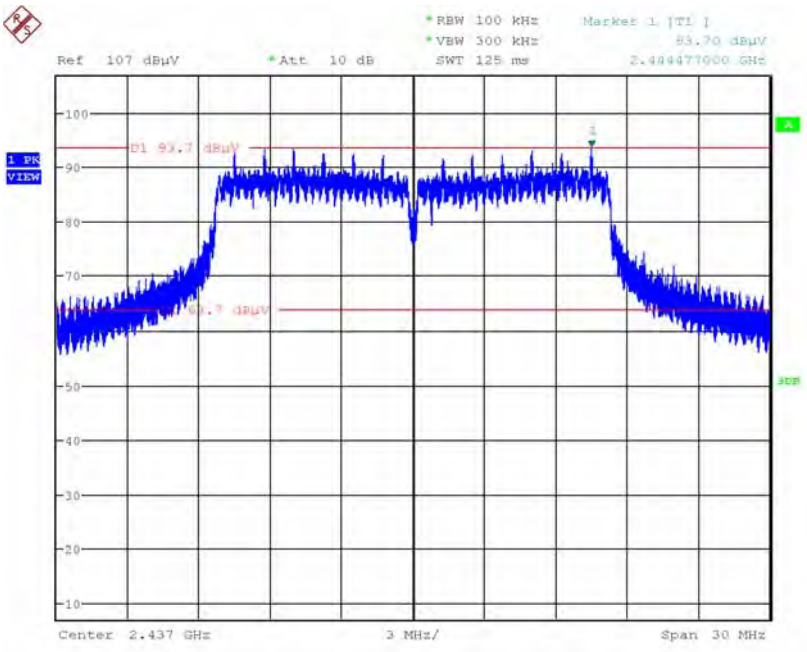


Date: 12.AUG.2013 17:18:35

Plot on Configuration IEEE 802.11b / CH 11 / 3TX / 2500MHz~26500MHz (down 30dBc)

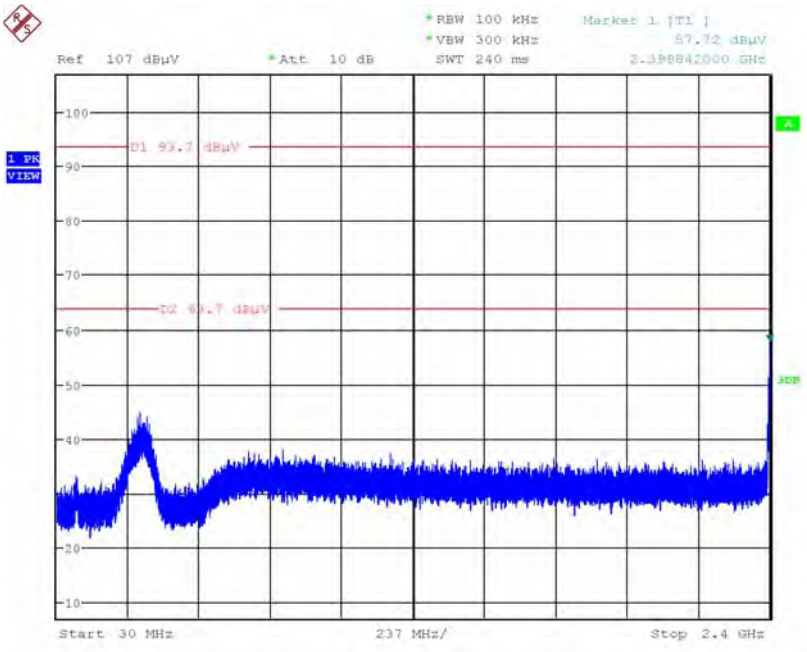


Plot on Configuration IEEE 802.11g / Reference Level / 1TX



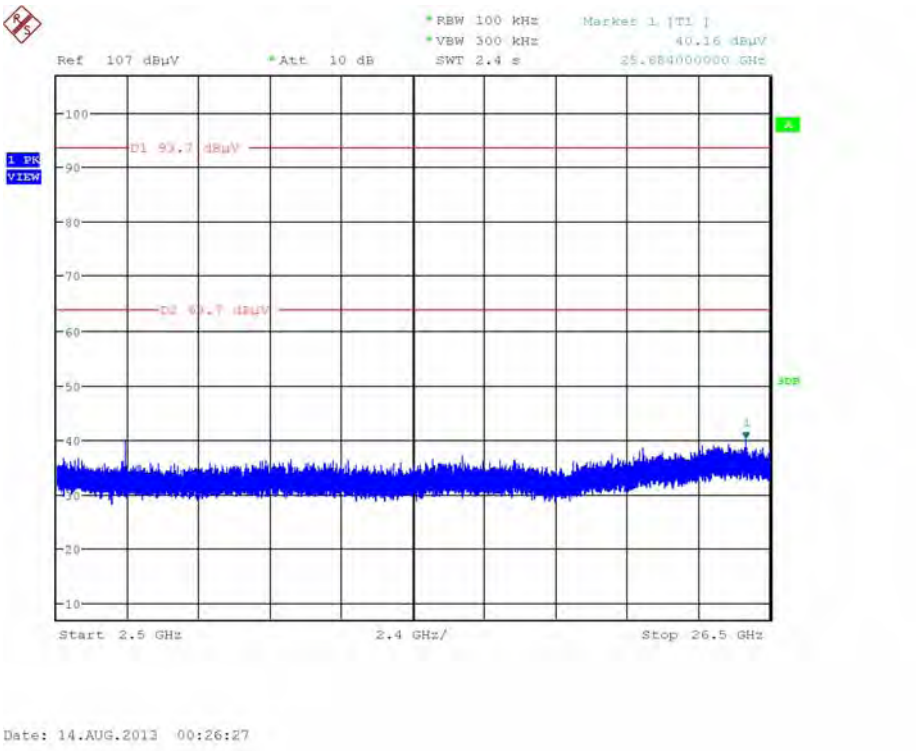
Date: 14.AUG.2013 00:25:04

Plot on Configuration IEEE 802.11g / CH 1 / 1TX / 30MHz~2400MHz (down 30dBc)



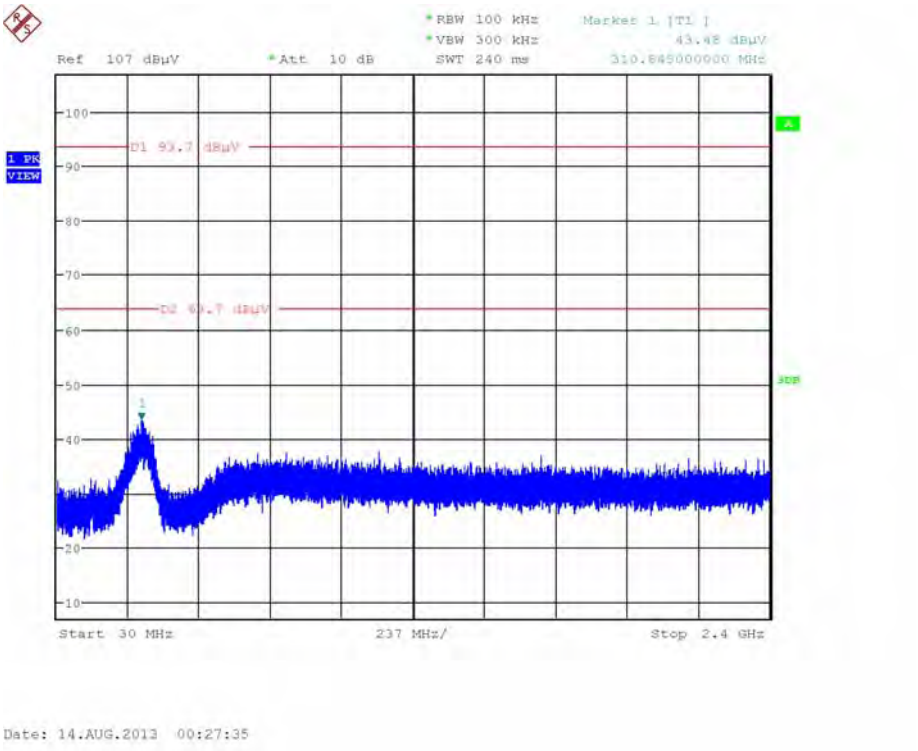
Date: 14.AUG.2013 00:25:45

Plot on Configuration IEEE 802.11g / CH 1 / 1TX / 2500MHz~26500MHz (down 30dBc)



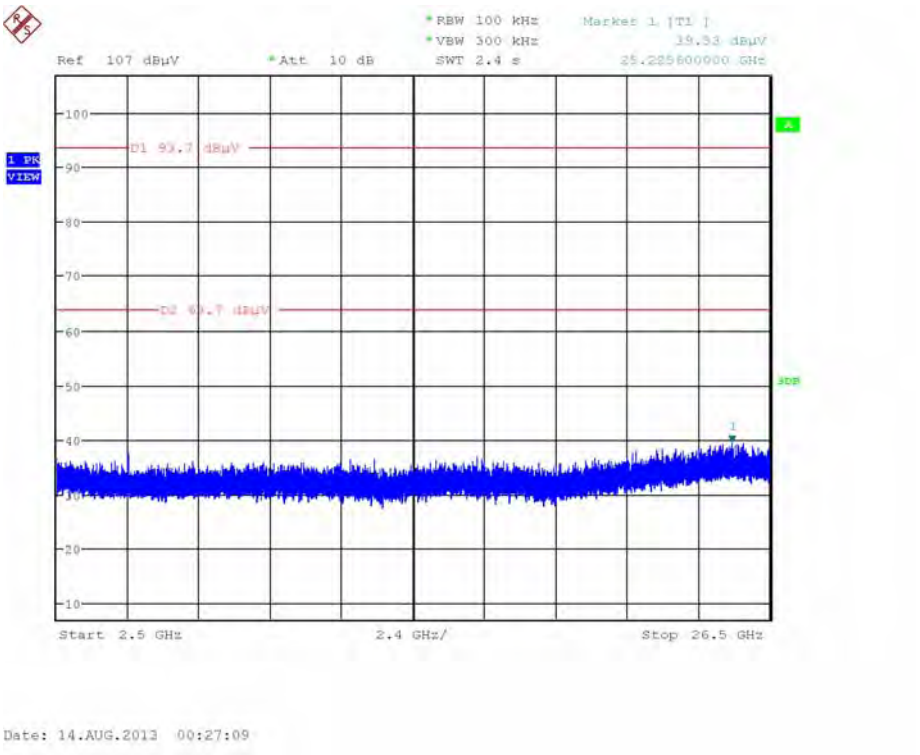
Date: 14.AUG.2013 00:26:27

Plot on Configuration IEEE 802.11g / CH 11 / 1TX / 30MHz~2400MHz (down 30dBc)

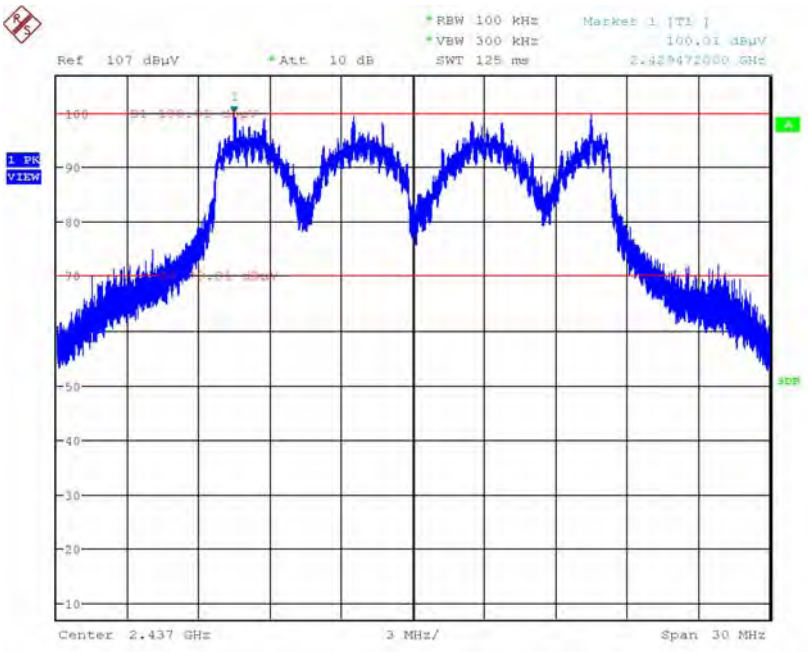


Date: 14.AUG.2013 00:27:35

Plot on Configuration IEEE 802.11g / CH 11 / 1TX / 2500MHz~26500MHz (down 30dBc)

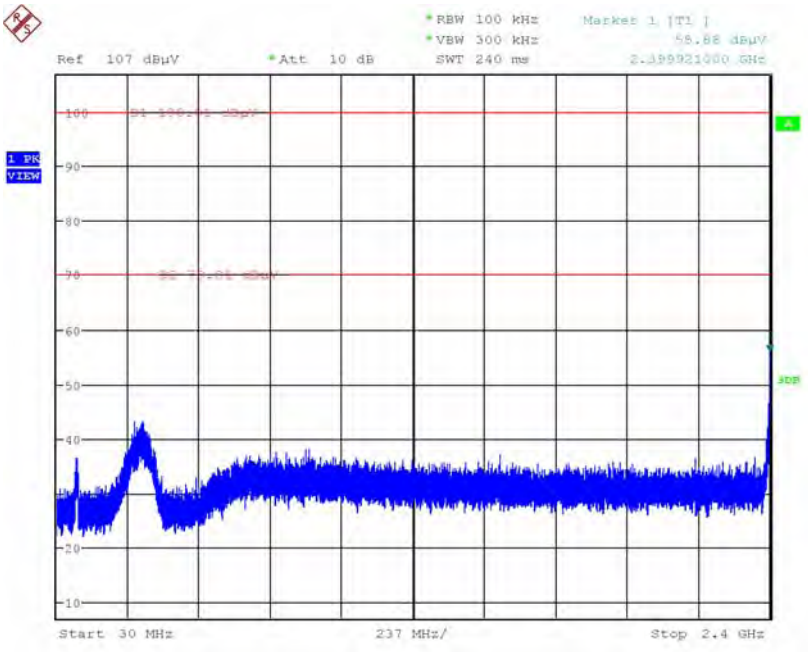


Plot on Configuration IEEE 802.11g / Reference Level / 2TX



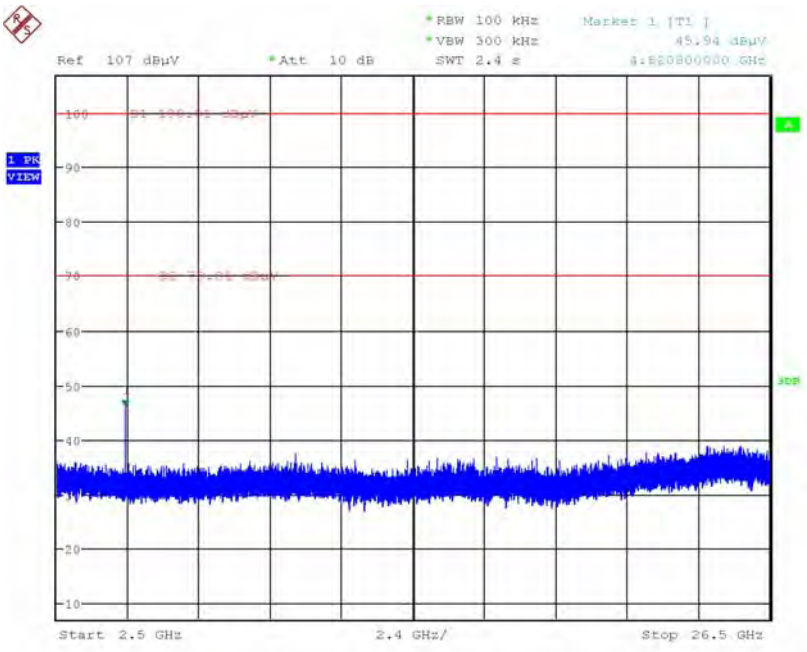
Date: 13.AUG.2013 23:17:57

Plot on Configuration IEEE 802.11g / CH 1 / 2TX / 30MHz~2400MHz (down 30dBc)



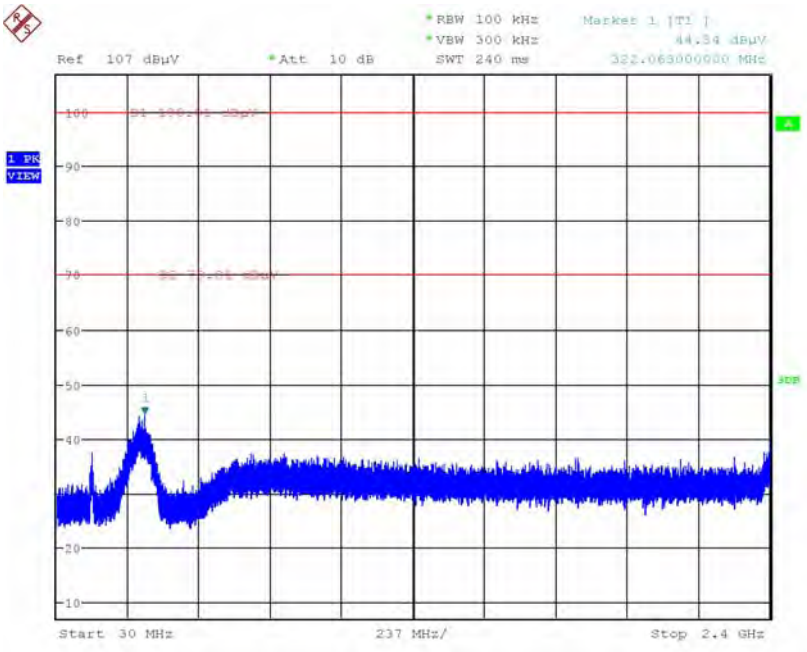
Date: 13.AUG.2013 23:18:42

Plot on Configuration IEEE 802.11g / CH 1 / 2TX / 2500MHz~26500MHz (down 30dBc)



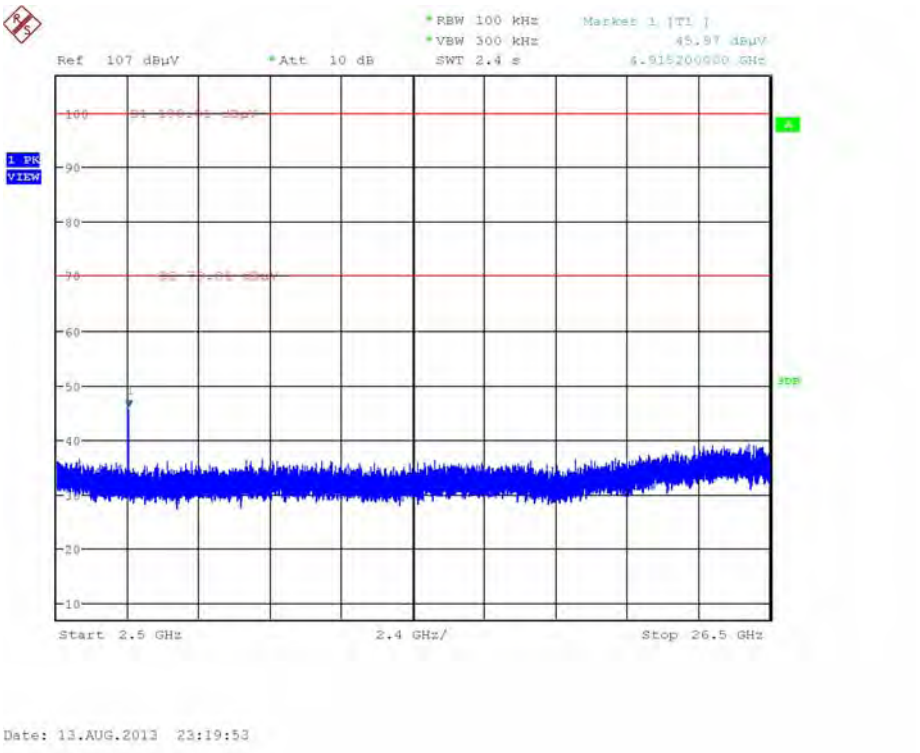
Date: 13.AUG.2013 23:19:10

Plot on Configuration IEEE 802.11g / CH 11 / 2TX / 30MHz~2400MHz (down 30dBc)

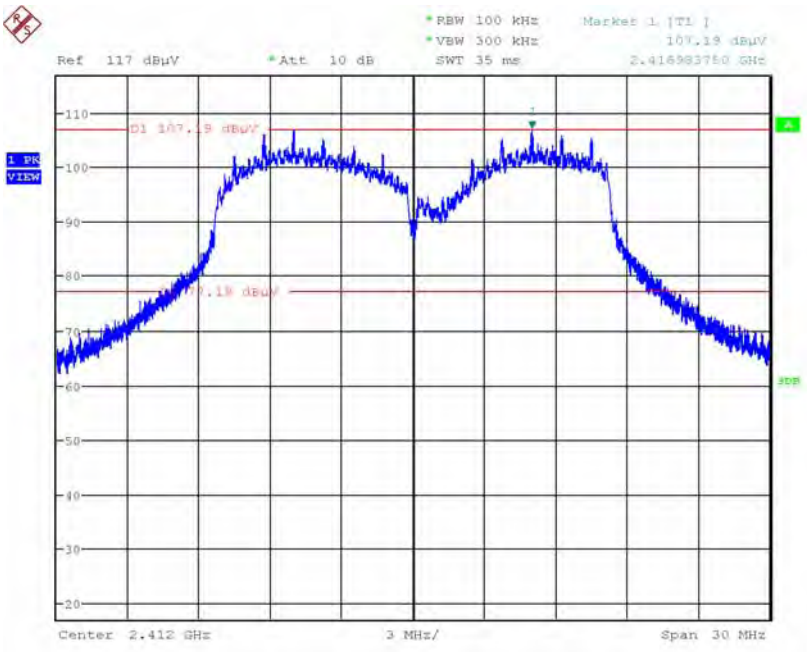


Date: 13.AUG.2013 23:20:28

Plot on Configuration IEEE 802.11g / CH 11 / 2TX / 2500MHz~26500MHz (down 30dBc)

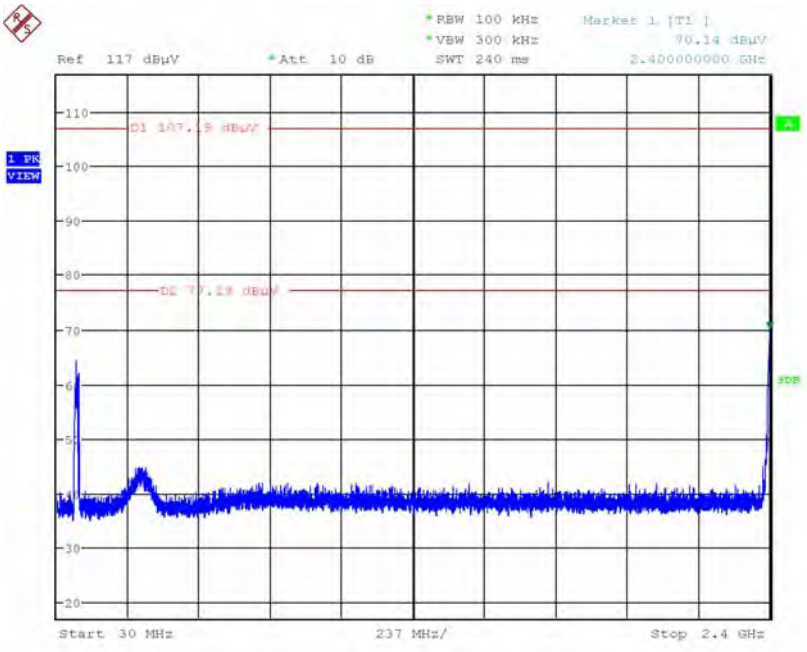


Plot on Configuration IEEE 802.11g / Reference Level / 3TX



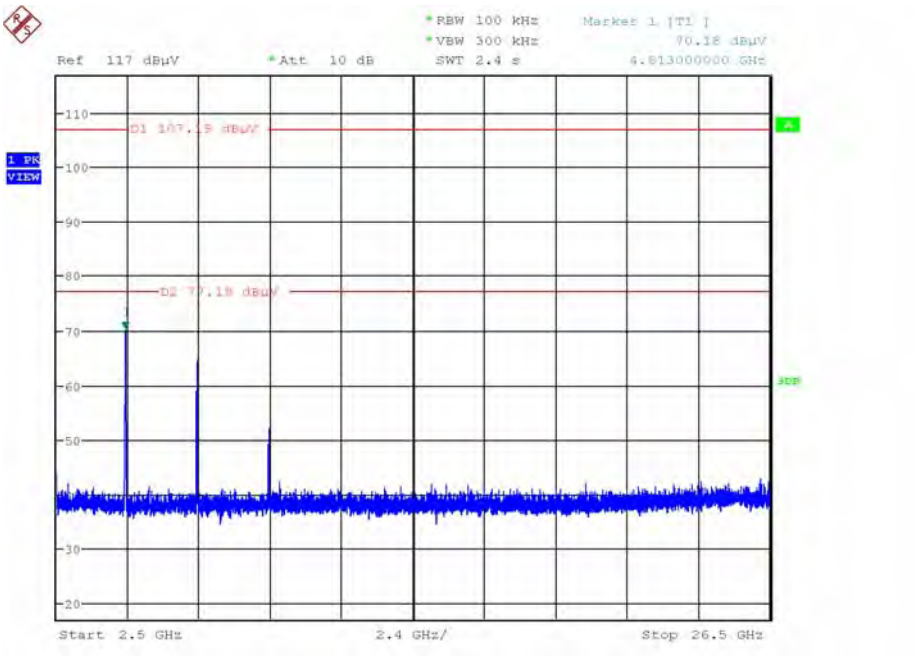
Date: 12.AUG.2013 17:19:36

Plot on Configuration IEEE 802.11g / CH 1 / 3TX / 30MHz~2400MHz (down 30dBc)



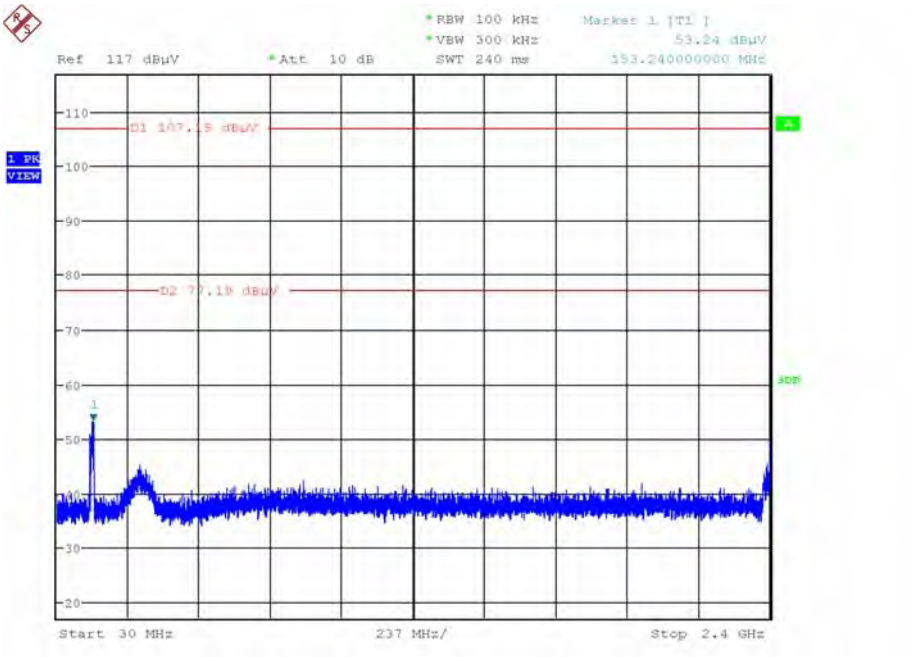
Date: 12.AUG.2013 17:19:56

Plot on Configuration IEEE 802.11g / CH 1 / 3TX / 2500MHz~26500MHz (down 30dBc)



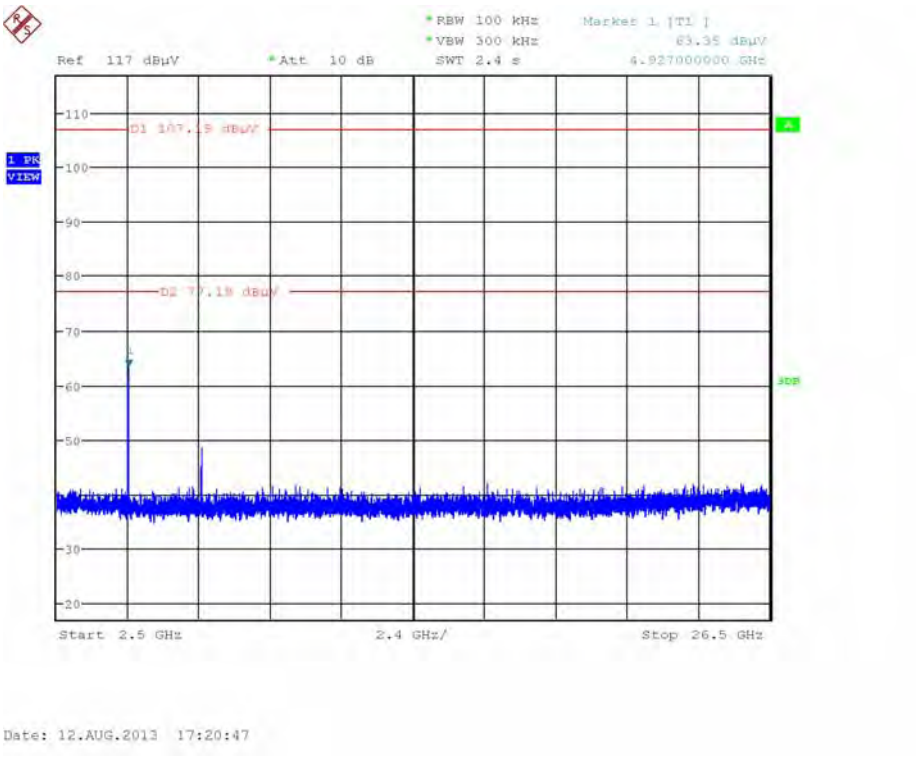
Date: 12.AUG.2013 17:20:17

Plot on Configuration IEEE 802.11g / CH 11 / 3TX / 30MHz~2400MHz (down 30dBc)



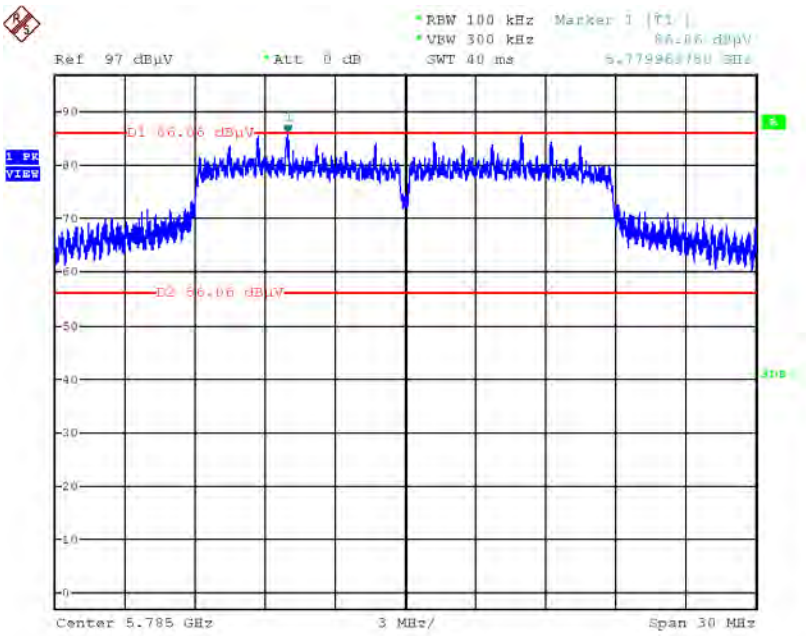
Date: 12.AUG.2013 17:21:03

Plot on Configuration IEEE 802.11g / CH 11 / 3TX / 2500MHz~26500MHz (down 30dBc)



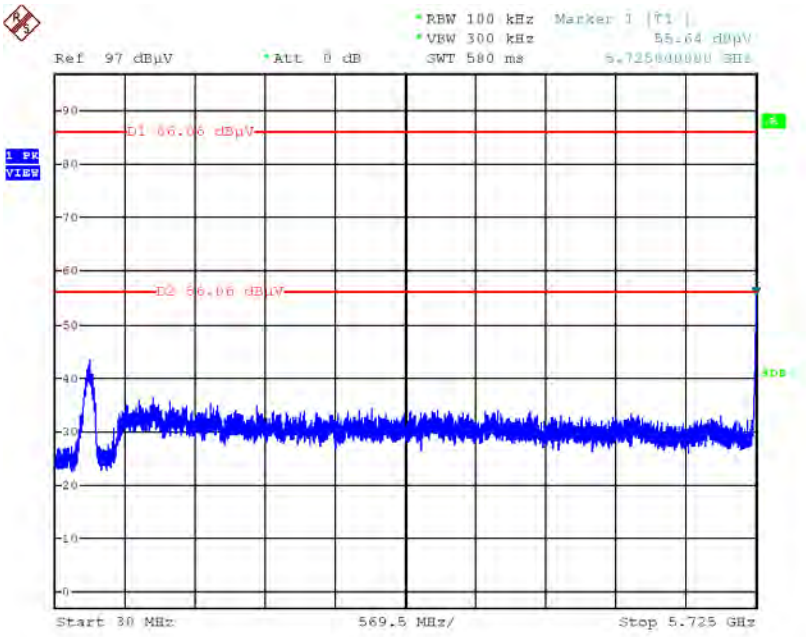
For Mode 2 (Ant.31 PIFA antenna / 4.7dBi)

Plot on Configuration IEEE 802.11n MCS0 20MHz / Reference Level / 1TX



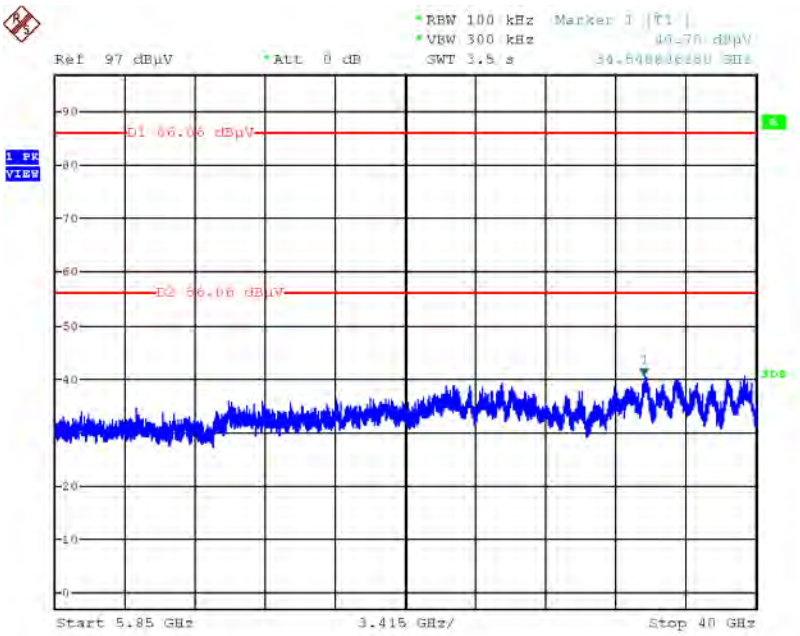
Date: 3.SEP.2013 12:35:52

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 149 / 1TX / 30MHz~5725MHz (down 30dBc)



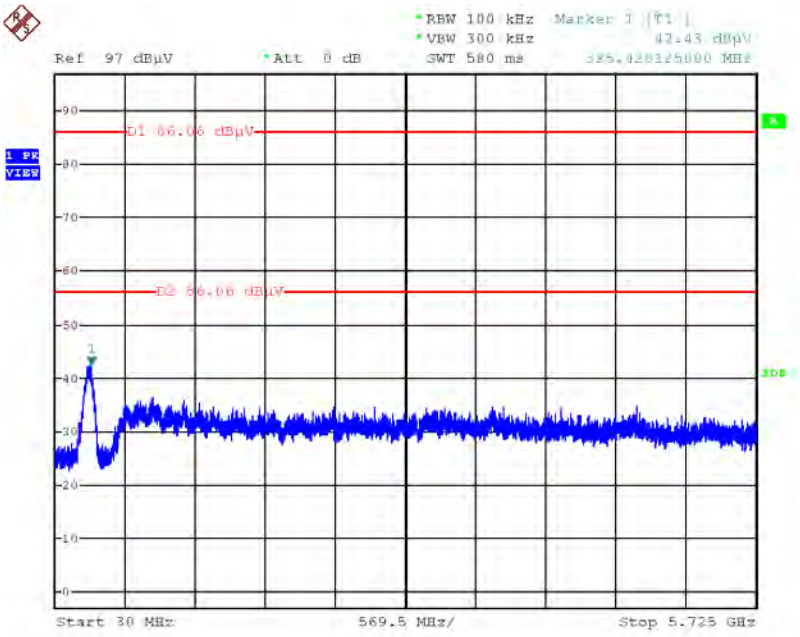
Date: 3.SEP.2013 12:39:18

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 149 / 1TX / 5850MHz~40000MHz (down 30dBc)



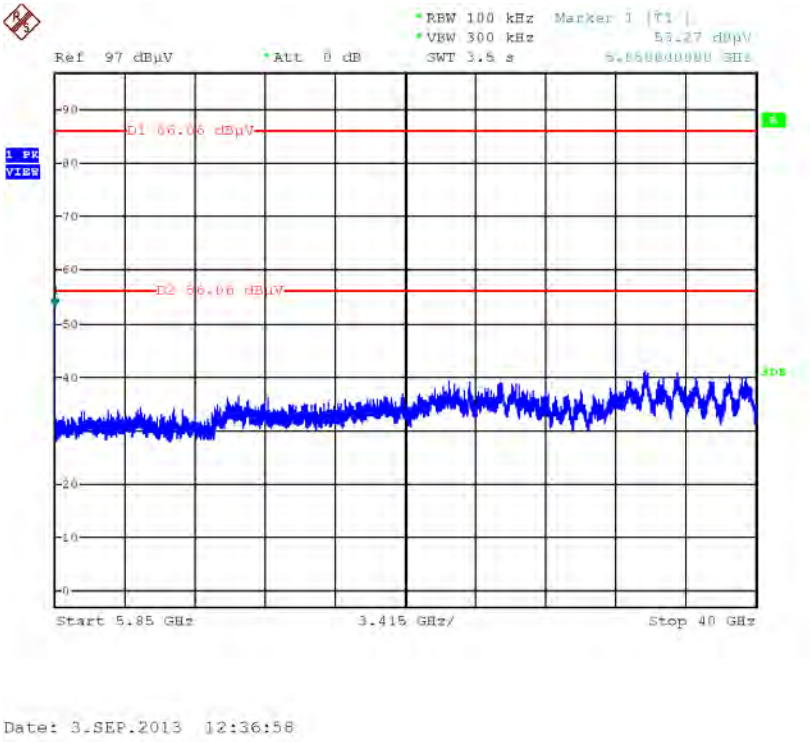
Date: 3.SEP.2013 12:40:15

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 165 / 1TX / 30MHz~5725MHz (down 30dBc)

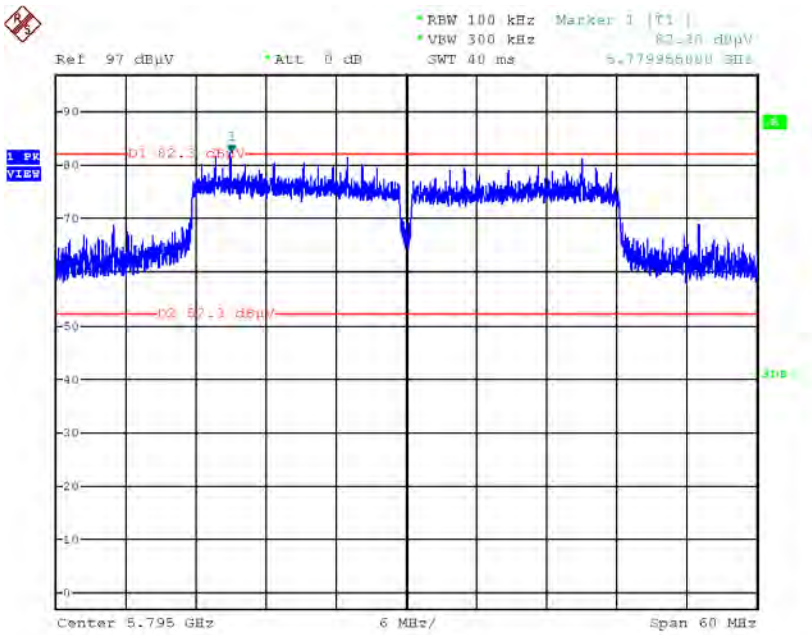


Date: 3.SEP.2013 12:37:49

Plot on Configuration IEEE 802.11n MCS0 20MHz / CH 165 / 1TX / 5850MHz~40000MHz (down 30dBc)

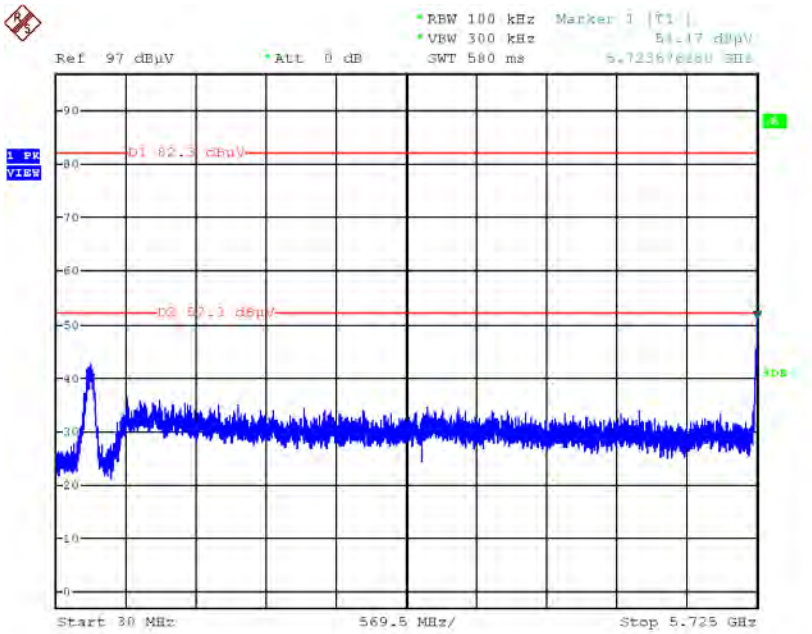


Plot on Configuration IEEE 802.11n MCS0 40MHz / Reference Level / 1TX



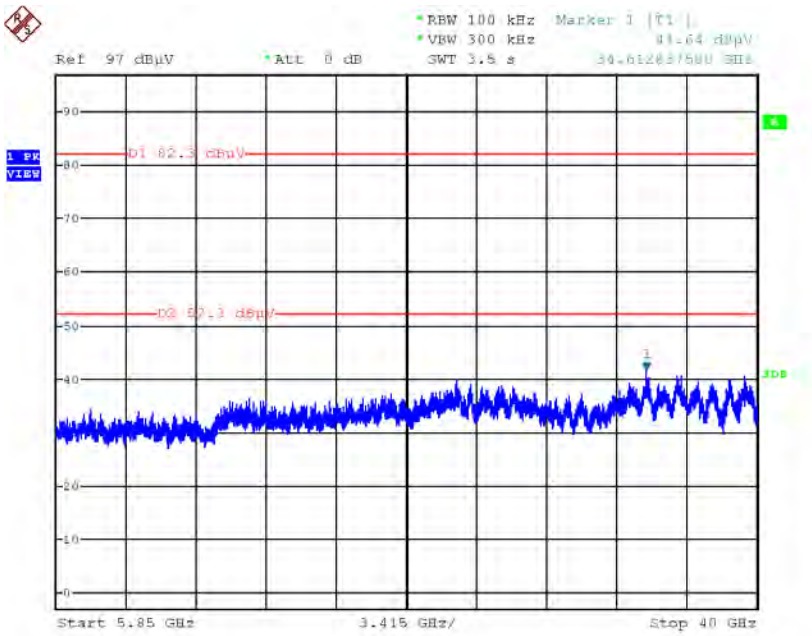
Date: 3.SEP.2013 12:21:36

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 151 / 1TX / 30MHz~5725MHz (down 30dBc)



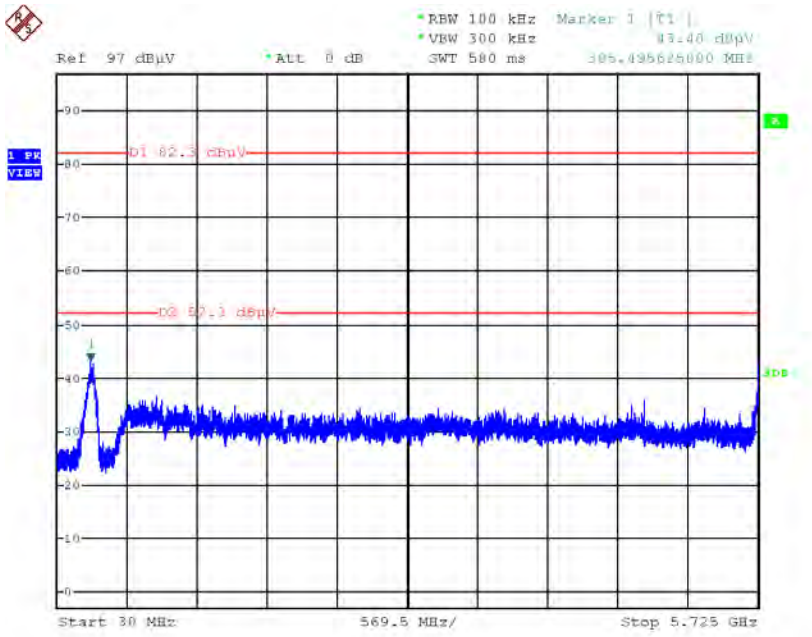
Date: 3.SEP.2013 12:25:40

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 151 / 1TX / 5850MHz~40000MHz (down 30dBc)



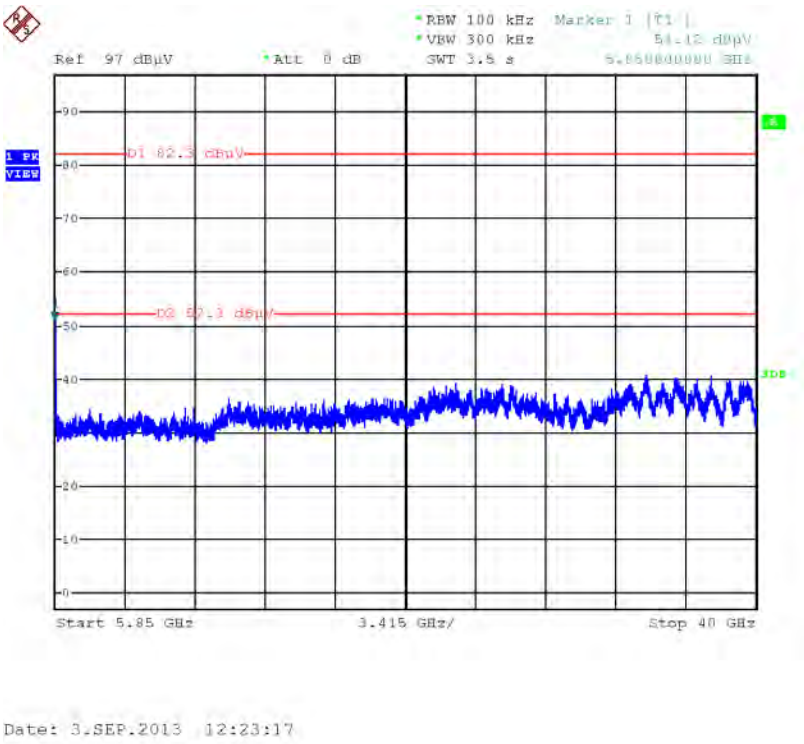
Date: 3.SEP.2013 12:30:45

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 159 / 1TX / 30MHz~5725MHz (down 30dBc)

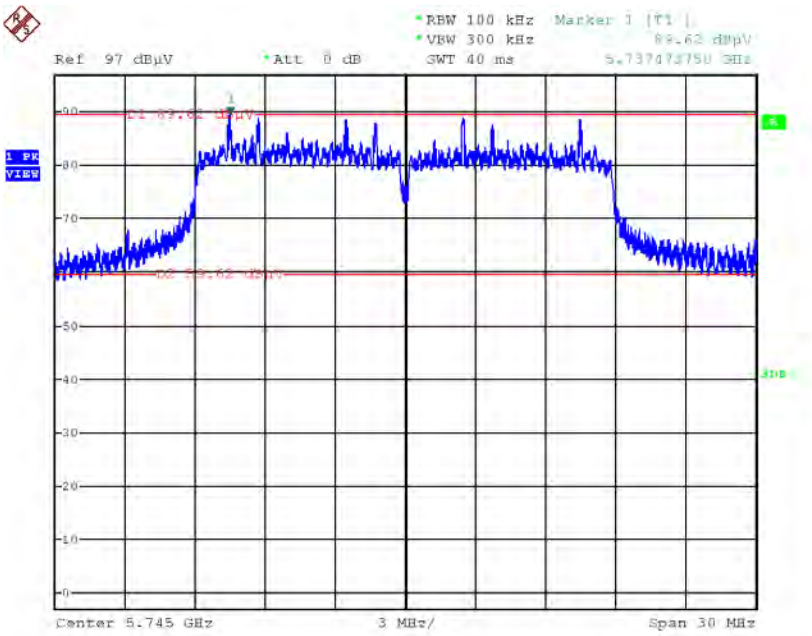


Date: 3.SEP.2013 12:22:25

Plot on Configuration IEEE 802.11n MCS0 40MHz / CH 159 / 1TX / 5850MHz~40000MHz (down 30dBc)

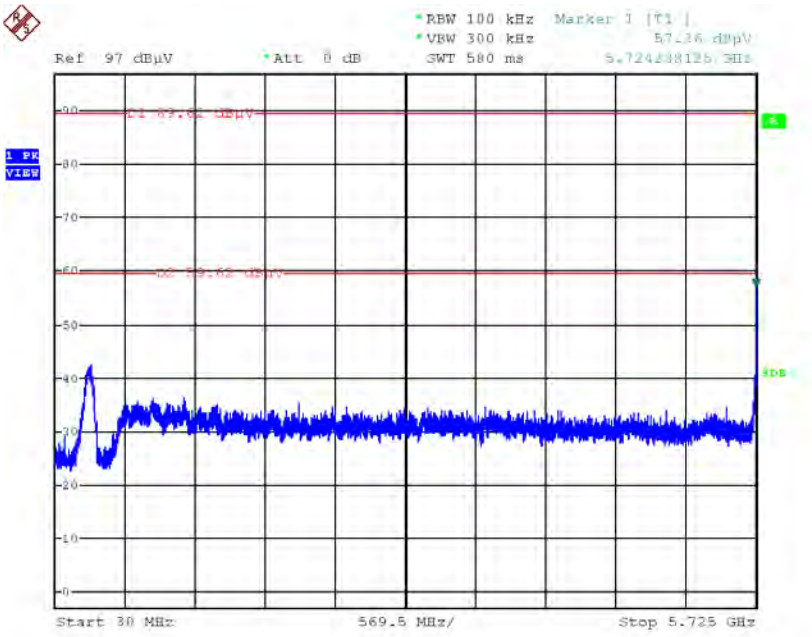


Plot on Configuration IEEE 802.11n MCS8 20MHz / Reference Level / 2TX



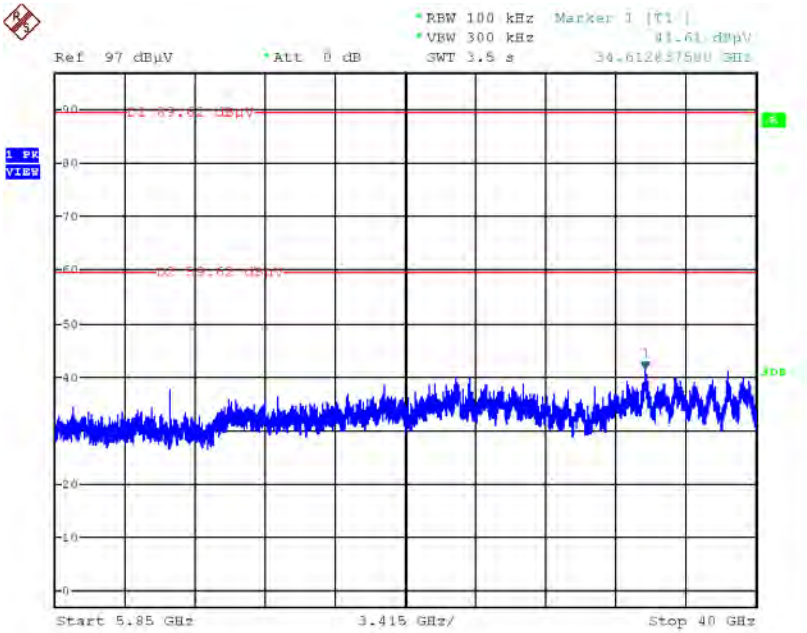
Date: 3.SEP.2013 11:44:36

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 149 / 2TX / 30MHz~5725MHz (down 30dBc)



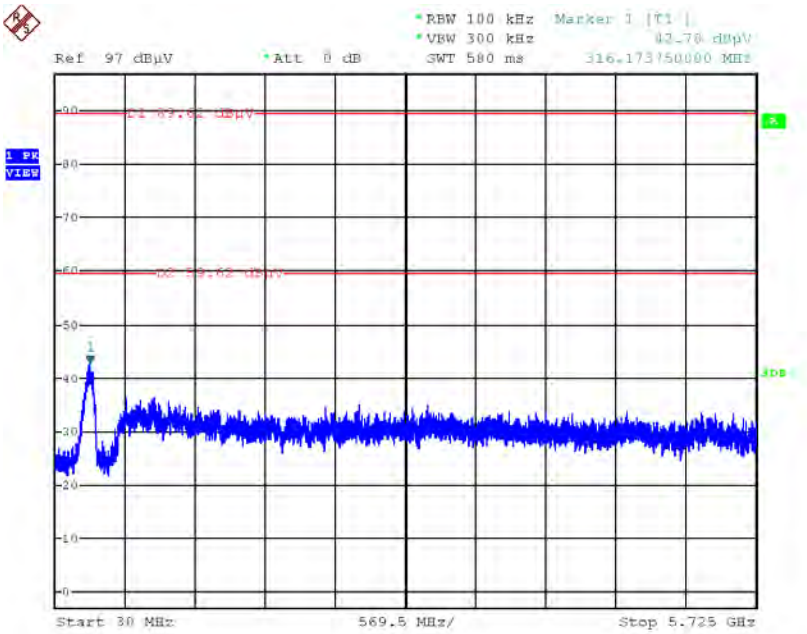
Date: 3.SEP.2013 11:45:18

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 149 / 2TX / 5850MHz~40000MHz (down 30dBc)



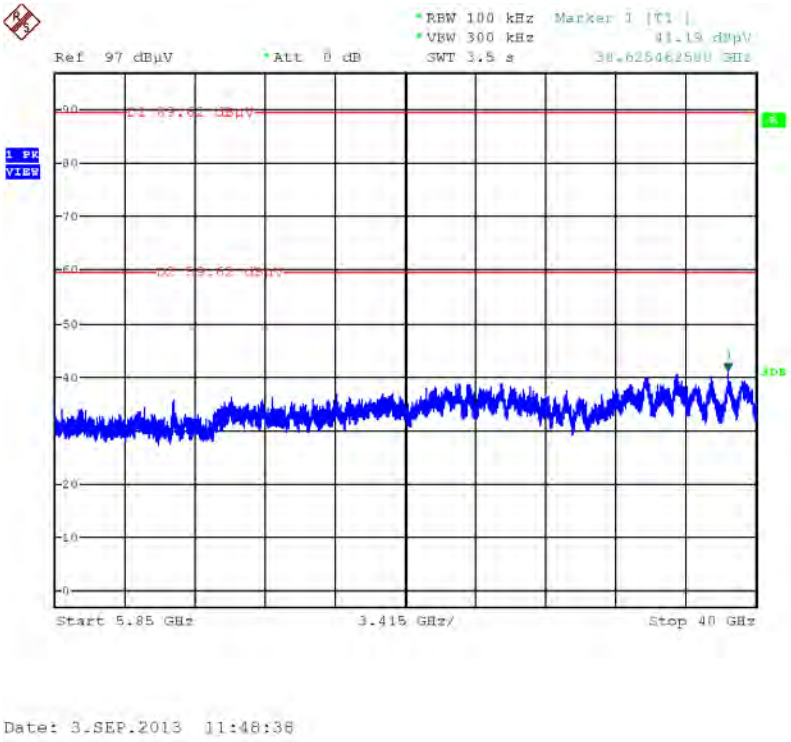
Date: 3.SEP.2013 11:46:17

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 165 / 2TX / 30MHz~5725MHz (down 30dBc)

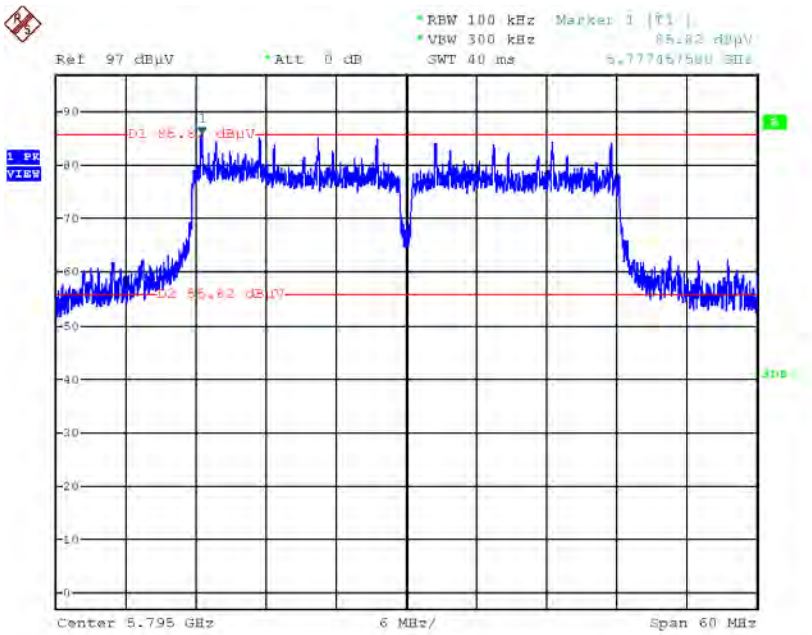


Date: 3.SEP.2013 11:47:40

Plot on Configuration IEEE 802.11n MCS8 20MHz / CH 165 / 2TX / 5850MHz~40000MHz (down 30dBc)

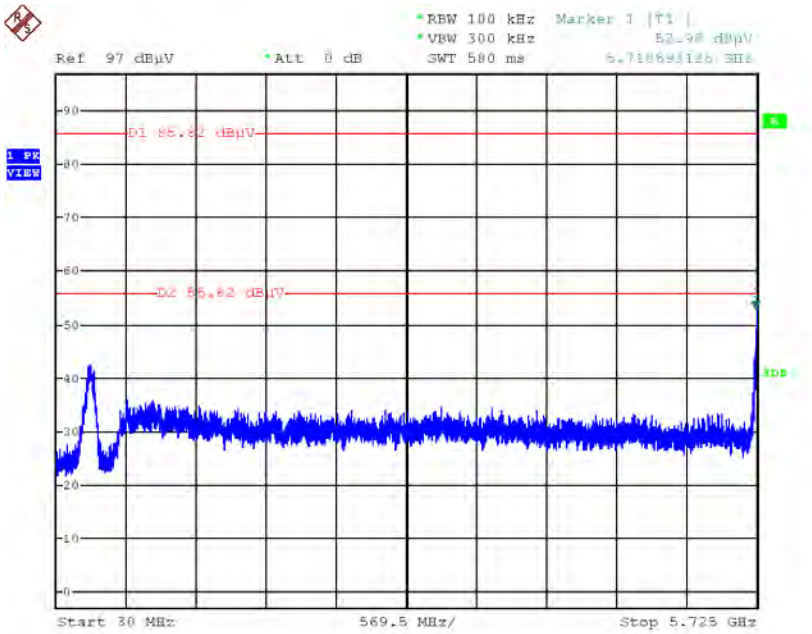


Plot on Configuration IEEE 802.11n MCS8 40MHz / Reference Level / 2TX



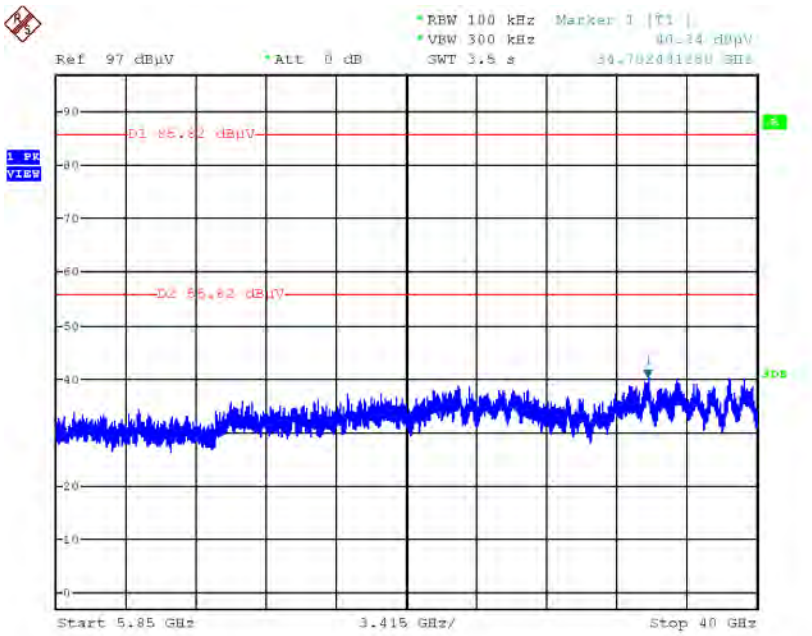
Date: 3.SEP.2013 11:53:05

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 151 / 2TX / 30MHz~5725MHz (down 30dBc)



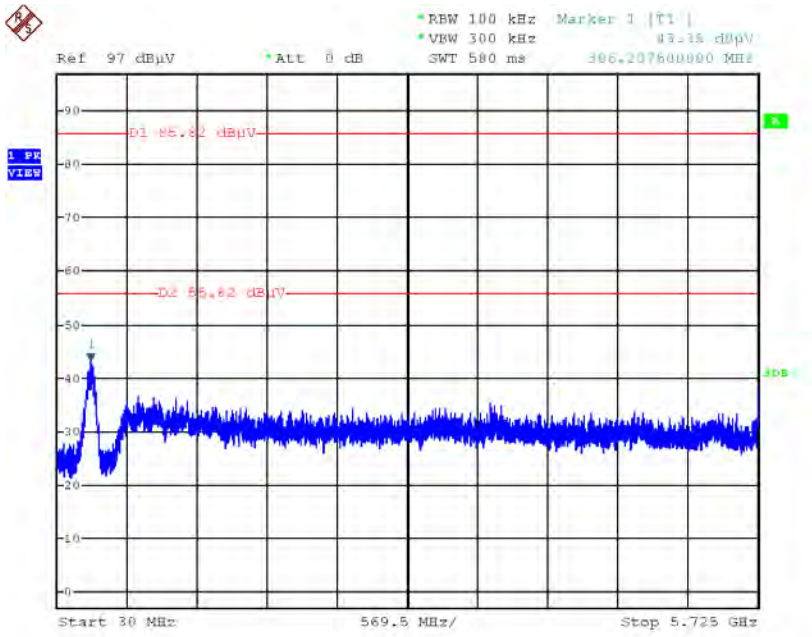
Date: 3.SEP.2013 11:57:30

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 151 / 2TX / 5850MHz~40000MHz (down 30dBc)



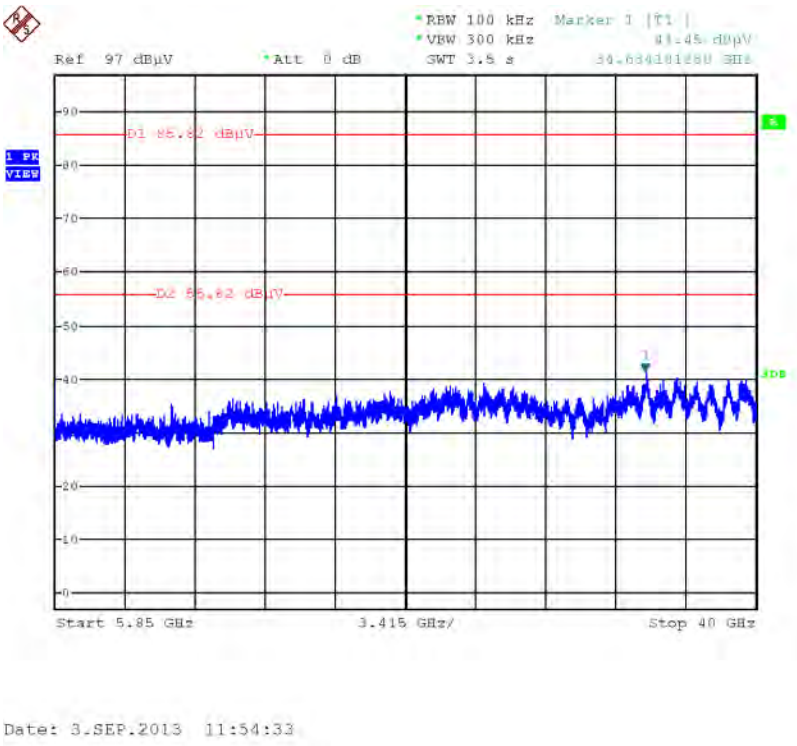
Date: 3.SEP.2013 11:58:11

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 159 / 2TX / 30MHz~5725MHz (down 30dBc)



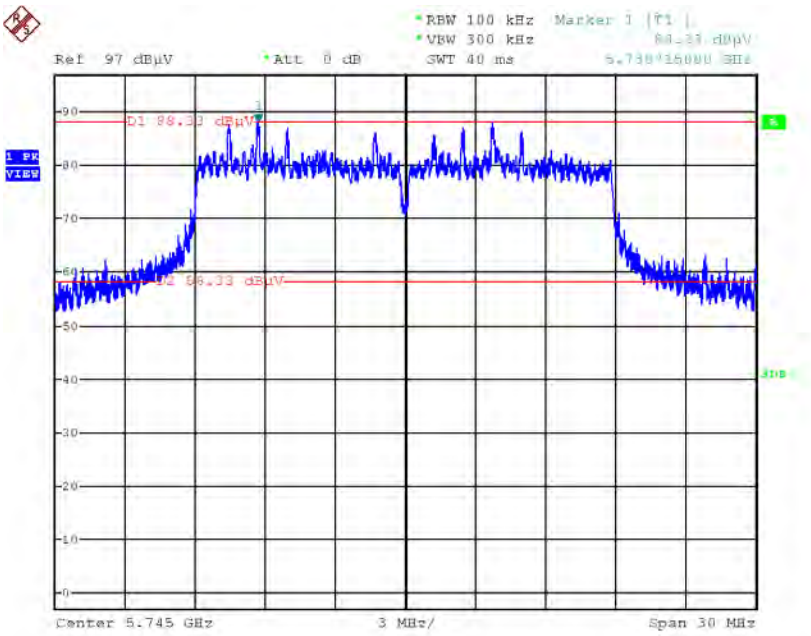
Date: 3.SEP.2013 11:53:32

Plot on Configuration IEEE 802.11n MCS8 40MHz / CH 159 / 2TX / 5850MHz~40000MHz (down 30dBc)



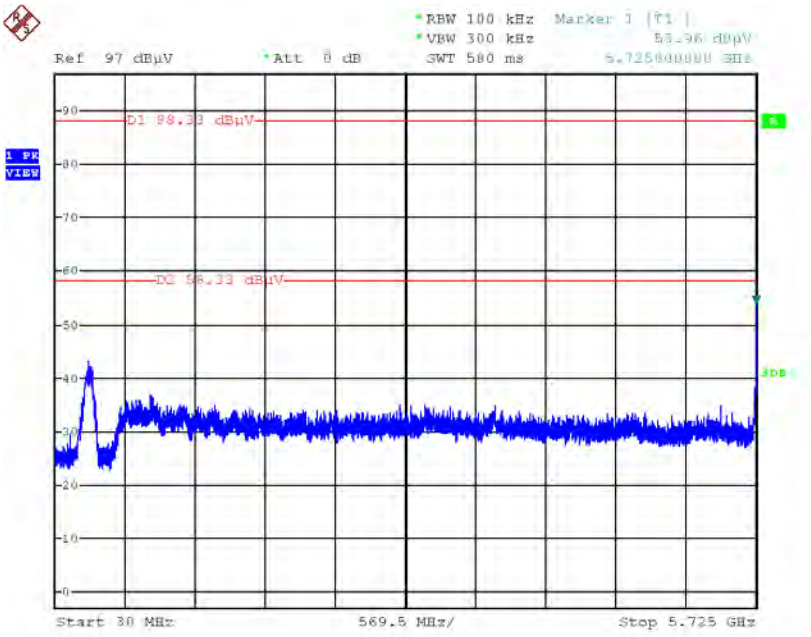
Date: 3.SEP.2013 11:54:33

Plot on Configuration IEEE 802.11n MCS16 20MHz / Reference Level / 3TX



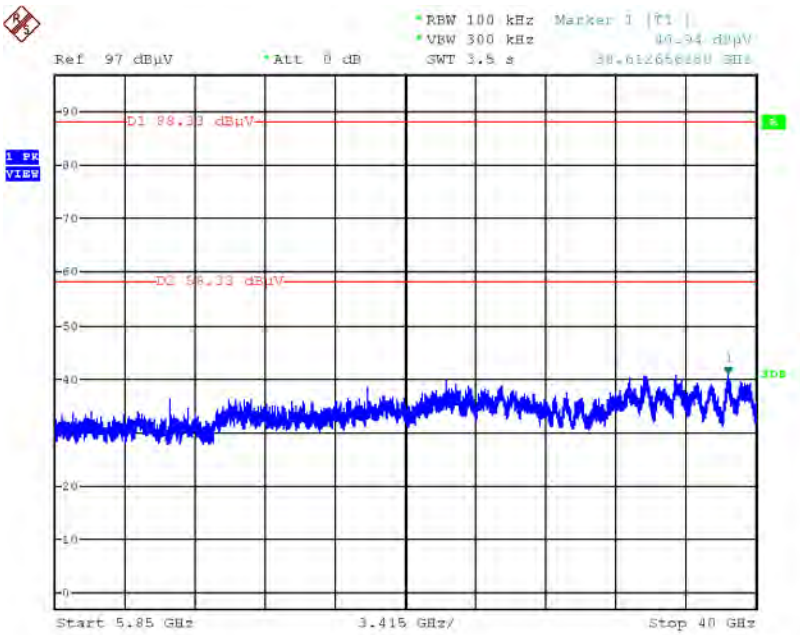
Date: 3.SEP.2013 12:11:29

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 149 / 3TX / 30MHz~5725MHz (down 30dBc)



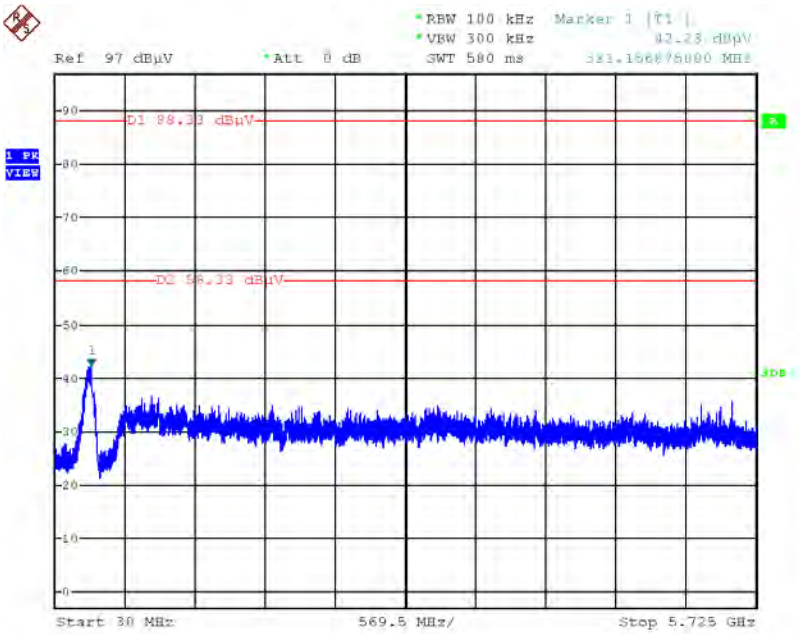
Date: 3.SEP.2013 12:12:07

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 149 / 3TX / 5850MHz~40000MHz (down 30dBc)



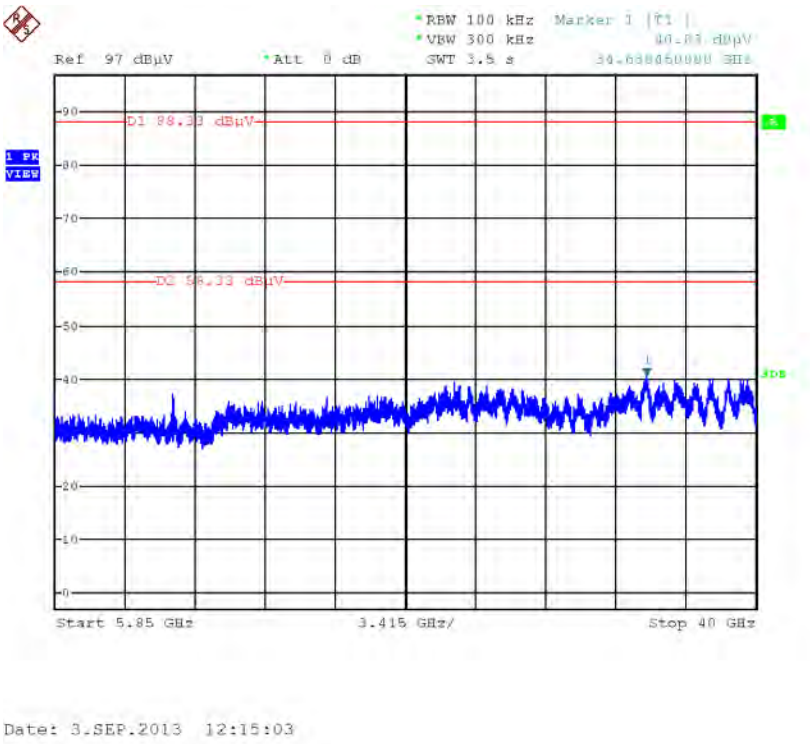
Date: 3.SEP.2013 12:13:06

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 165 / 3TX / 30MHz~5725MHz (down 30dBc)

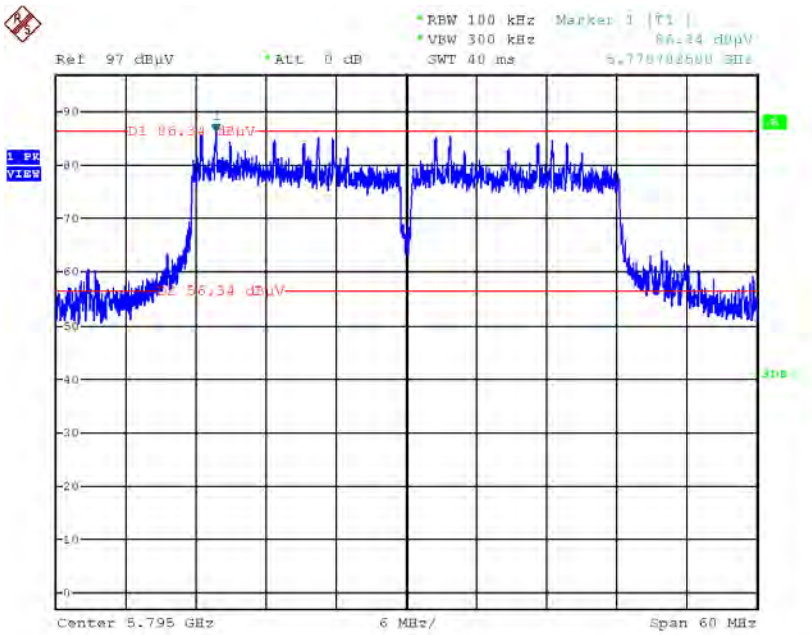


Date: 3.SEP.2013 12:14:20

Plot on Configuration IEEE 802.11n MCS16 20MHz / CH 165 / 3TX / 5850MHz~40000MHz (down 30dBc)

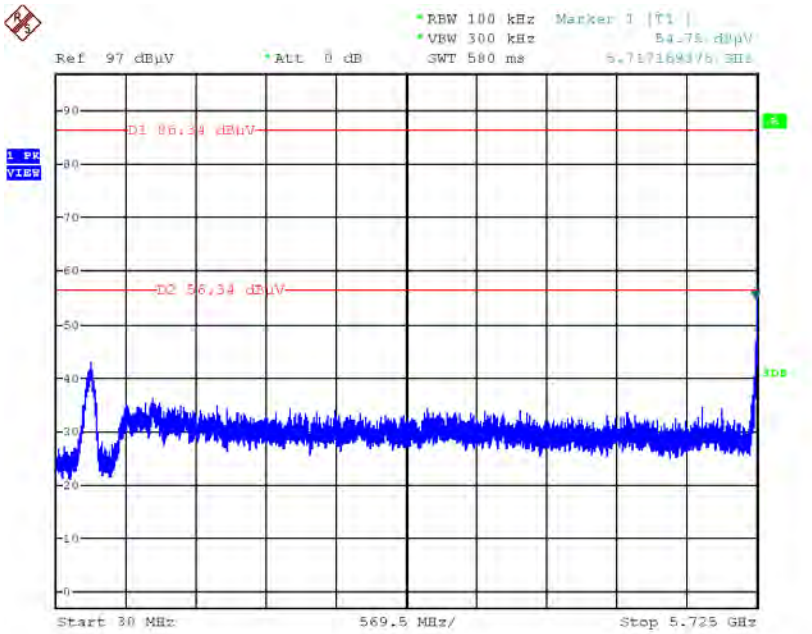


Plot on Configuration IEEE 802.11n MCS16 40MHz / Reference Level / 3TX



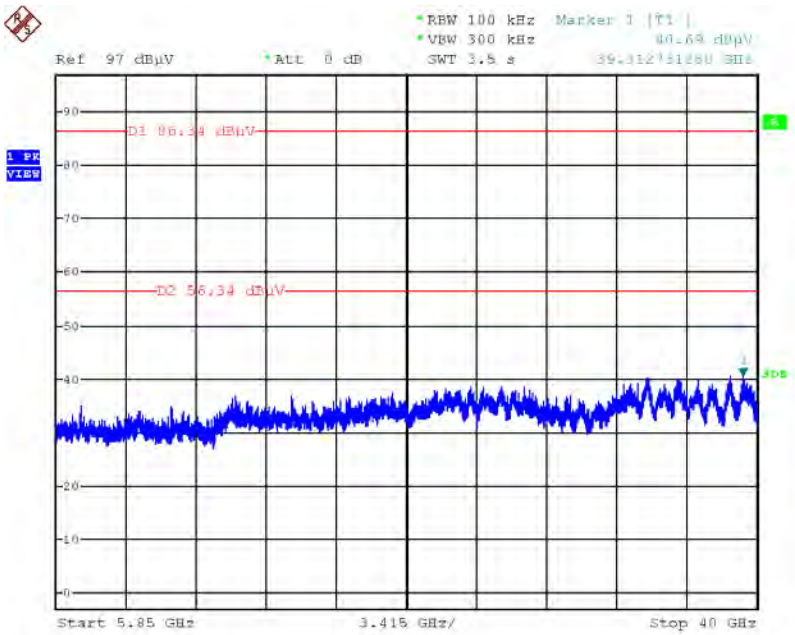
Date: 3.SEP.2013 12:04:19

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 151 / 3TX / 30MHz~5725MHz (down 30dBc)



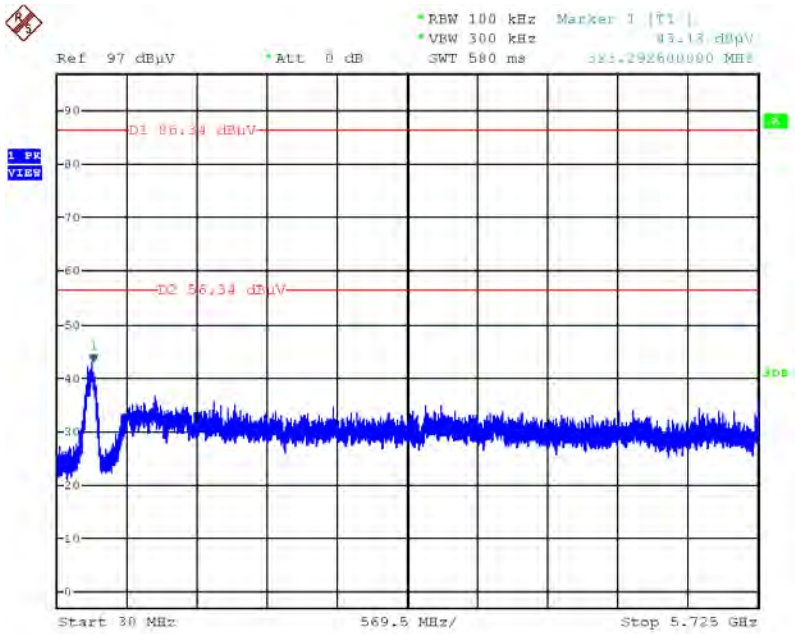
Date: 3.SEP.2013 12:07:47

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 151 / 3TX / 5850MHz~40000MHz (down 30dBc)



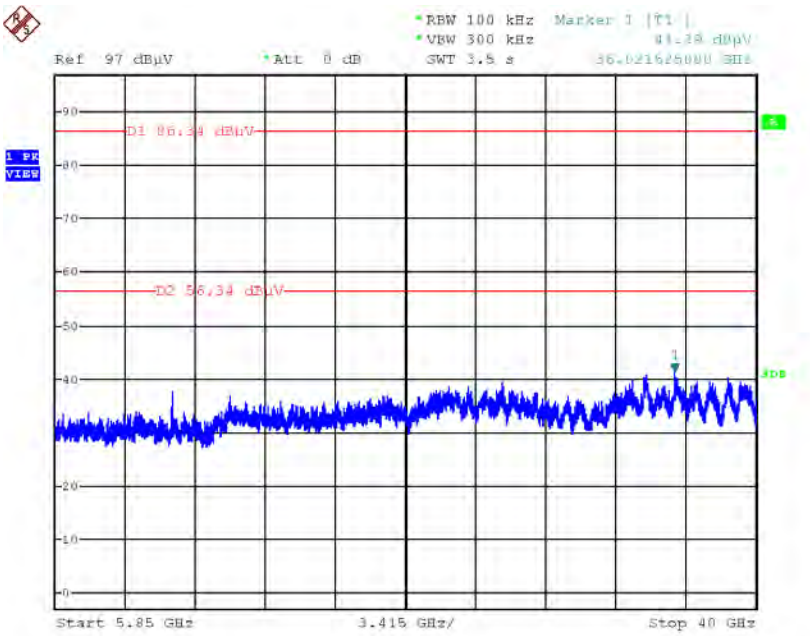
Date: 3.SEP.2013 12:08:44

Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 159 / 3TX / 30MHz~5725MHz (down 30dBc)

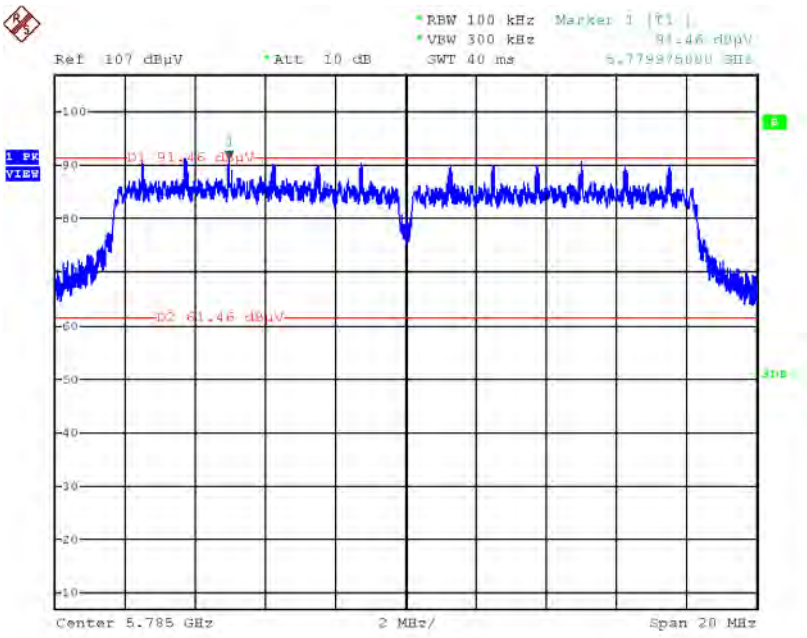


Date: 3.SEP.2013 12:04:47

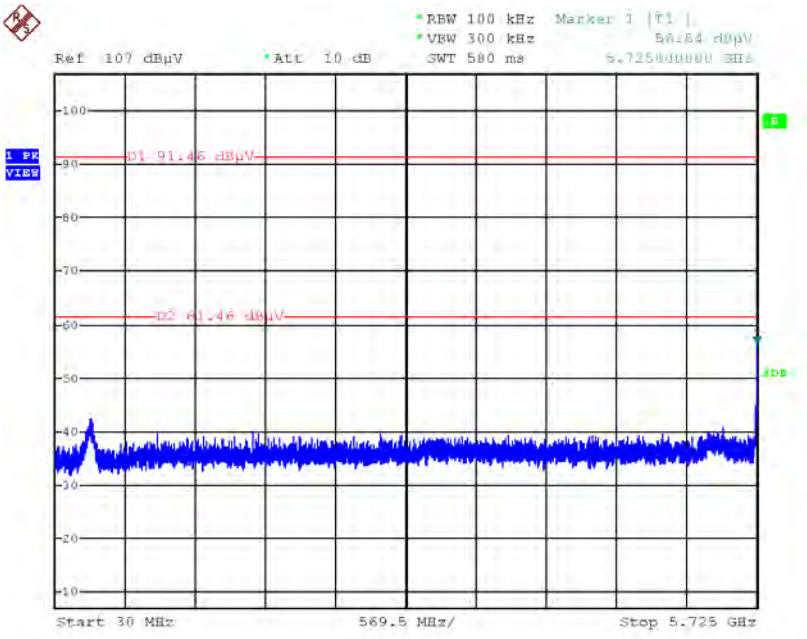
Plot on Configuration IEEE 802.11n MCS16 40MHz / CH 159 / 3TX / 5850MHz~40000MHz (down 30dBc)



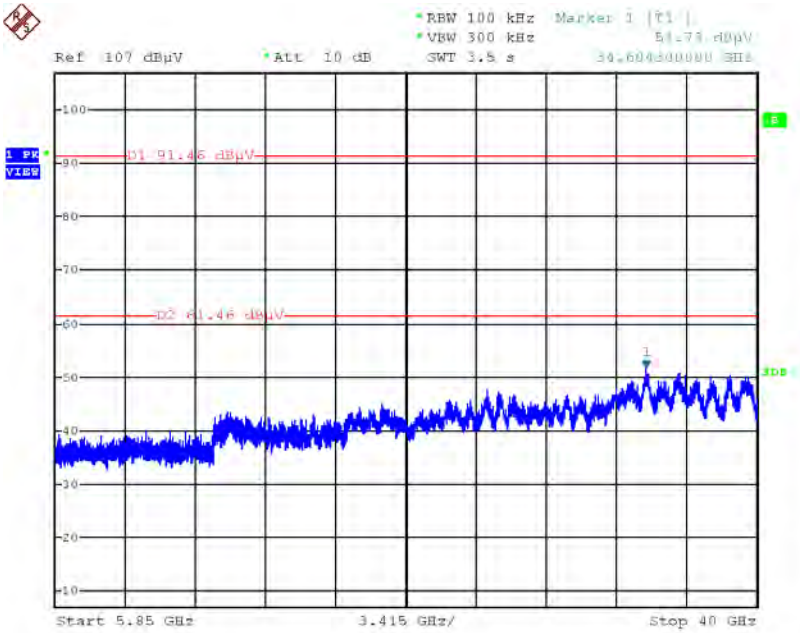
Plot on Configuration IEEE 802.11a / Reference Level / 1TX



Plot on Configuration IEEE 802.11a / CH 149 / 1TX / 30MHz~5725MHz (down 30dBc)

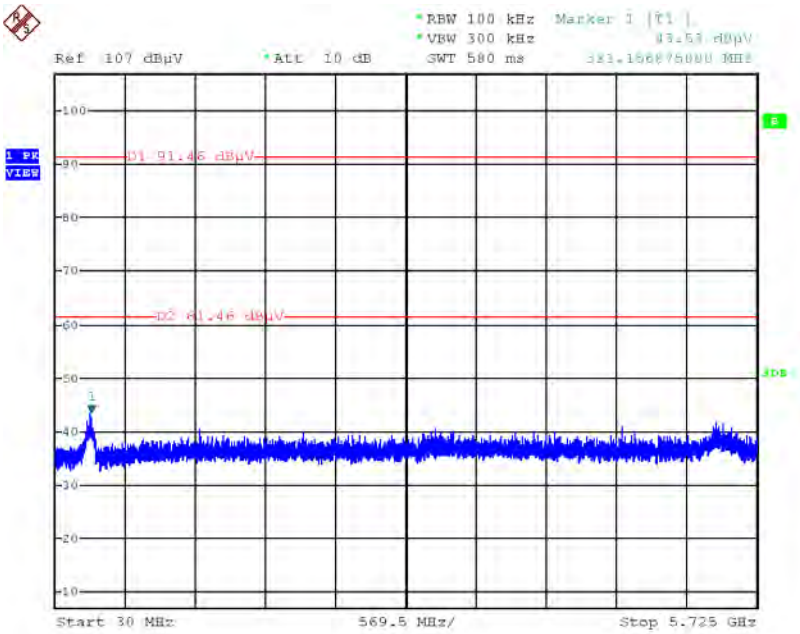


Plot on Configuration IEEE 802.11a / CH 149 / 1TX / 5850MHz~40000MHz (down 30dBc)



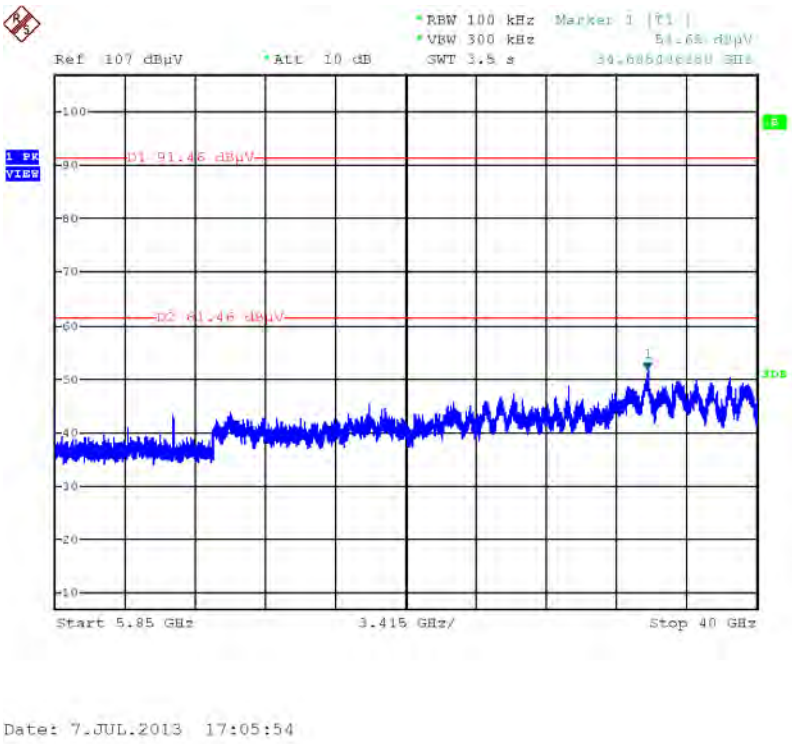
Date: 7.JUL.2013 16:57:52

Plot on Configuration IEEE 802.11a / CH 165 / 1TX / 30MHz~5725MHz (down 30dBc)



Date: 7.JUL.2013 17:06:59

Plot on Configuration IEEE 802.11a / CH 165 / 1TX / 5850MHz~40000MHz (down 30dBc)



Date: 7.JUL.2013 17:05:54

4.6. Antenna Requirements

4.6.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.6.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
BILOG ANTENNA	Schaffner	CBL6112D	22021	20MHz ~ 2GHz	Apr. 16, 2013	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9 kHz - 30 MHz	Nov. 05, 2012*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz~18GHz	Nov. 27, 2012	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBEAK	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Nov. 23, 2012	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Nov. 27, 2012	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Nov. 23, 2012	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26.5GHz ~ 40GHz	Jul. 31, 2013	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSP40	100056	9kHz~40GHz	Nov. 16, 2012	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS 30	100355	9kHz ~ 2.75GHz	Apr. 12, 2013	Radiation (03CH01-CB)
Turn Table	INN CO	CO 2000	N/A	0 ~ 360 degree	N.C.R	Radiation (03CH01-CB)
Antenna Mast	INN CO	CO2000	N/A	1 m - 4 m	N.C.R	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz - 1 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-1	N/A	1 GHz – 26.5 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-2	N/A	1 GHz – 26.5 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-3	N/A	1 GHz - 40 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-4	N/A	1 GHz - 40 GHz	Nov. 18, 2012	Radiation (03CH01-CB)
Signal analyzer	R&S	FSV40	100979	9kHz~40GHz	Oct. 08, 2012	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 04, 2013	Conducted (TH01-CB)
Signal Generator	R&S	SMR40	100302	10MHz-40GHz	Nov. 27, 2012	Conducted (TH01-CB)
RF Power Divider	Woken	2 Way	0120A02056002D	2GHz ~ 18GHz	Nov. 18, 2012	Conducted (TH01-CB)
RF Power Divider	Woken	3 Way	MDC2366	2GHz ~ 18GHz	Nov. 18, 2012	Conducted (TH01-CB)
RF Power Divider	Woken	4 Way	0120A04056002D	2GHz ~ 18GHz	Nov. 18, 2012	Conducted (TH01-CB)
Signal generator	R&S	SMU200A	102782	25MHz-6GHz	Sep. 26, 2012	Conducted (TH01-CB)
Horn Antenna	COM-POWER	AH-118	071187	1GHz – 18GHz	Jul. 03, 2013	Conducted (TH01-CB)
Horn Antenna	COM-POWER	AH-118	071042	1GHz – 18GHz	Dec. 06, 2012	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-7	-	1 GHz – 26.5 GHz	Nov. 19, 2012	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-8	-	1 GHz – 26.5 GHz	Nov. 19, 2012	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-9	-	1 GHz – 26.5 GHz	Nov. 19, 2012	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-10	-	1 GHz – 26.5 GHz	Nov. 19, 2012	Conducted (TH01-CB)
RF Cable-high	Woken	High Cable-11	-	1 GHz – 26.5 GHz	Nov. 19, 2012	Conducted (TH01-CB)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Power Sensor	Anritsu	MA2411B	0917223	300MHz~40GHz	Sep. 18, 2013	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Nov. 27, 2012	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

"*" Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.

6. TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

7. MEASUREMENT UNCERTAINTY

Uncertainty of Radiated Emission Measurement (30MHz ~ 1,000MHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.173	dB	K=1	0.086
Cable loss	±0.174	dB	K=2	0.087
Antenna gain	±0.169	dB	K=2	0.084
Site imperfection	±0.433	dB	Triangular	0.214
Pre-amplifier gain	±0.366	dB	K=2	0.183
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				1.778
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				3.555

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.191	dB	K=1	0.095
Cable loss	±0.169	dB	K=2	0.084
Antenna gain	±0.191	dB	K=2	0.096
Site imperfection	±0.582	dB	Triangular	0.291
Pre-amplifier gain	±0.304	dB	K=2	0.152
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				1.839
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				3.678

Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Receiver reading	±0.186	dB	K=1	0.093
Cable loss	±0.167	dB	K=2	0.083
Antenna gain	±0.190	dB	K=2	0.095
Site imperfection	±0.488	dB	Triangular	0.244
Pre-amplifier gain	±0.269	dB	K=2	0.134
Transmitter antenna	±1.200	dB	Rectangular	0.600
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				1.771
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				3.541

Uncertainty of Conducted Emission Measurement

Contribution	Uncertainty of x_i			$u(x_i)$
	Value	Unit	Probability Distribution k	
Cable loss	±0.038	dB	K=2	0.019
Attenuator	±0.047	dB	K=2	0.024
Power Meter specification	±0.300	dB	Triangular	0.150
Power Sensor specification	±0.300	dB	Rectangular	0.150
Signal generator	±0.461	dB	Rectangular	0.231
Mismatch	±0.080	dB	U-shape	0.040
Spectrum analyzer	±0.500	dB	Rectangular	0.250
Combined standard uncertainty Uc(y)				0.863
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)				1.726